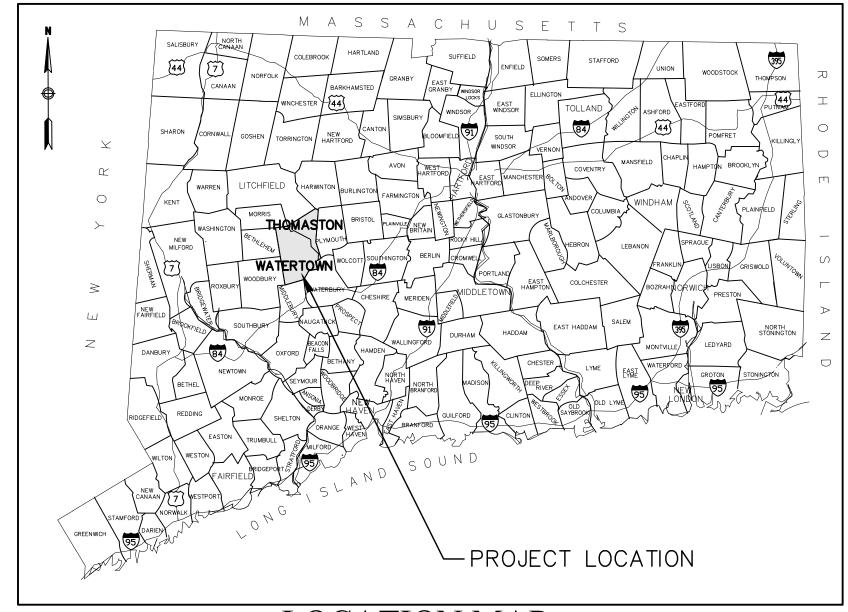


NAUGATUCK RIVER GREENWAY TOWN OF THOMASTON, CT TOWN OF WATERTOWN, CT



LOCATION MAP

PROJECT ROADWAY MAP



300	0	300	600
APPF	ROX. SCALE	IN FEET	

CONTENTS

TITLE SHEET

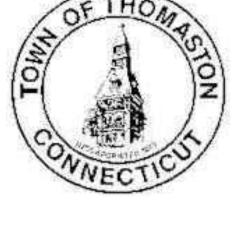
LEGEND, ABBREVIATIONS, & GENERAL NOTES

MISCELLANEOUS DETAILS CONTROL POINT TIE PLANS MULTI-USE TRAIL PLANS 08 PEDESTRIAN BRIDGE PLANS

CONNDOT STANDARD DRAWINGS

CONSTRUCTION SIGN SUPPORTS AND TR-1220 02

CHANELIZING DEVICES





EDMOND V. MONE FIRST SELECTMAN, THOMASTON

GLENN CLARK SUPERINTENDENT OF HIGHWAYS, THOMASTON

> ROBERT M. SCANNELL, JR. TOWN MANAGER, WATERTOWN

ROY CAVANAUGH, P.E. DIRECTOR OF PUBLIC WORKS, WATERTOWN 2016 CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FORM 817 INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS THERETO GOVERN.

DESIGNED BY: VHB 100 GREAT MEADOW ROAD, SUITE 200 WETHERSFIELD, CT 06109



FEBRUARY, 2020

ABBREVIATIONS LEGEND MONITORING WELL **EXECUTE** CATCH BASIN ACCESSIBLE CURB RAMP OVERHEAD → UTILITY POLE RD ● ROOF DRAIN ADBE AS DIRECTED BY ENGINEER OVERHEAD LINE OHW ⇔ → UTILITY POLE W/LIGHT DRAIN MANHOLE AOBE AS ORDERED BY ENGINEER PROPERTY LINE → GUY POLE OR WIRE S SEWER MANHOLE BASELINE PEDESTRIAN BOLLARD/POST © ELECTRIC MANHOLE BITUMINOUS BERM PERPENDICULAR PERP TYPE TELEPHONE MANHOLE 100.0 × SPOT ELEVATION BC/BCLC BITUMINOUS CURB PROFILE GRADE LINE PGLMB MAILBOX M MANHOLE BITUMINOUS POST INDICATOR VALVE VAULT W WATER MANHOLE BOC BACK OF CURB POLYVINYLCHLORIDE PIPE GATE BOX (WATER) BACK OF WALK BOW RADIUS FIRE HYDRANT SHRUBS BWL BROKEN WHITE LINE REINFORCED CONCRETE PIPE DECIDUOUS TREE O GATE BOX (GAS) BROKEN YELLOW LINE BYL RESIDENTIAL ***** EVERGREEN TREE → STREET SIGN CATCH BASIN RIM=/R= RIM ELEVATION TEST PIT CONCRETE CURB ROW RIGHT OF WAY CLF CHAIN LINK FENCE --- DRAINAGE EASEMENT RIGHT CORRUGATED METAL PIPE CCM — — — EDGE OF PAVEMENT SEWER LINE COMM COMMERCIAL — — — — — — EDGE OF GRAVEL STREET BOUND CONC CONCRETE ———— EDGE OF TRAVELED WAY SLOPED CONCRETE EDGING ORRUGATED PLASTIC PIPE SCE DRAIN LINE SCC SLOPED CONCRETE CURB The steel guide Rail DOUBLE DBL SGE SLOPED GRANITE EDGING DUCTILE IRON PIPE SEWER MANHOLE SMH DRAIN MANHOLE DRAWING STA STATION DRIVEWAY UNDERGROUND DRAINAGE LINE SWK SIDEWALK DOUBLE YELLOW LINE UNDERGROUND SEWER LINE FLECTRIC LINE SINGLE WHITE LINE OVERHEAD WIRE LEVATION SYL SINGLE YELLOW LINE UNDERGROUND ELECTRIC LINE LECTRIC MANHOLE TELEPHONE LINE FDGE OF PAVEMENT UNDERGROUND GAS LINE TMH TELEPHONE MANHOLE EX\EXIST EXISTING UNDERGROUND WATER LINE TP TEST PIT FIRE ALARM TYP **TYPICAL** UNDERGROUND TELEPHONE LINE FLARED END SECTION UTILITY POLE TREE LINE UP FINISH FLOOR ELEVATION VC VITRIFIED CLAY PIPE UNDERDRAIN FLOW LINE FOC FACE OF CURB VERTICAL GRANITE CURB VGC LIMIT OF WORK GAS LINE WATER LINE PROPERTY LINE GATE BOX (GAS) GATE BOX (WATER) GRADE TO DRAIN WMH WATER MANHOLE HOT MIX ASPHALT HMA HYD HYDRANT INV=/I= INVERT ELEVATION INTERMEDIATE INT LT LEFT MANHOLE

UNDERGROUND UTILITY NOTES:

THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 A MINIMUM OF 72-HOURS PRIOR TO ANY EXCAVATION BEING PERFORMED ON SITE.

- 2. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD AND ARE AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. EXISTING UTILITIES ARE NOT GUARANTEED TO BE EXACTLY LOCATED, NOR IS IT GUARANTEED THAT ALL UNDERGROUND/OVERHEAD UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS
- 3. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL CONFIRM THAT THERE IS NO INTERFERENCE BETWEEN EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 4. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER, AND SANITARY) ARE SHOWN WHEREVER POSSIBLE. THE CONTRACTOR IS TO ASSUME THAT SERVICES ARE PRESENT TO ALL BUILDINGS. THE LOCATIONS AND DEPTHS OF ALL BUILDING SERVICE CONNECTIONS ARE TO BE CHECKED WITH THE APPROPRIATE UTILITY COMPANIES.
- 5. THE UTILITY LOCATIONS AND DEPTHS SHOWN ON THE PROFILES ARE APPROXIMATE REPRESENTATIONS ONLY AND ARE NOT INTENDED TO BE A COMPLETE OR ACCURATE DEPICTION OF THE UNDERGROUND UTILITIES. THE LOCATIONS AND DEPTHS OF THE UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY TEST PITS.
- 6. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE AFFECTED UTILITY, COORDINATE REPAIRS, AND PERFORM THE WORK AS DETAILED BY THE UTILITY AS NEEDED TO RESTORE SERVICE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL NOT CONTINUE WITH OTHER WORK OPERATIONS UNTIL THE UTILITY SERVICE IS RESTORED.

GENERAL CONSTRUCTION NOTES:

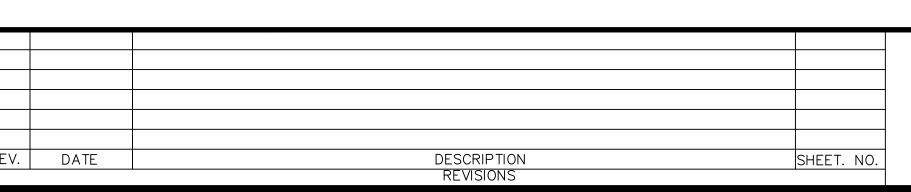
- 1. UPON THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY ALL FEES, AND POST ALL BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH OBTAINING PERMITS SHALL BE INCLUDED IN THE OVERALL COSTS OF THE PROJECT.
- 2. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE CONDITIONS OF APPROVAL OUTLINED IN ALL STATE AND LOCAL PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THIS INFORMATION PRIOR TO CONSTRUCTION AND FOR CONFORMING TO THE CONDITIONS AS REQUIRED DURING CONSTRUCTION.
- 3. HANDICAP—ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
- 4. ACCESS TO THE WPCA SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE TOWNS. SPECIAL ATTENTION SHALL BE PAID TO COORDINATING WITH THE POLICE DEPARTMENTS, EMERGENCY RESPONSE UNITS, AND TOWN OFFICIALS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH TOWN STANDARDS AND LOCAL REQUIREMENTS.
- 6. IN ADDITION TO COMPLIANCE WITH CONSTRUCTION SAFETY REQUIREMENTS, THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND PROVIDE ALL NECESSARY SIGNING, WARNING LIGHTS, DRUMS, CONES, AND CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS AT THE COMPLETION OF EACH DAY'S WORK.
- 7. AREAS ALONG AND OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS, INCLUDING ALL LANDSCAPED AREAS, DRIVEWAY CURB RETURNS, OR SIMILARLY IMPROVED ADJOINING AREAS, SHALL BE PROTECTED AND/OR RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 8. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 9. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES, EQUIPMENT, PIPING, AND VALVES FROM DAMAGE DURING CONSTRUCTION. ALL DAMAGE SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL STORM, SEWER, WATER, AND GAS UTILITIES UNCOVERED OR DISTURBED DURING CONSTRUCTION OPERATIONS. THE UNCOVERED OR DISTURBED UTILITIES SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS. THIS WORK SHALL BE MEASURED AND PAID FOR UNDER THE APPLICABLE RESET ITEM. THE CONTRACTOR SHALL COORDINATE ADJUSTMENT OF ANY ELECTRICAL, TELEPHONE, OR CABLE FACILITIES WITH THE UTILITY OWNER.
- 11. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 12. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 4" TOPSOIL AND TURF ESTABLISHMENT.
- 13. ALL TYPICAL SECTIONS SHOWN ON CONSTRUCTION PLANS ARE ORIENTED LOOKING FROM THE BEGINNING OF CONSTRUCTION TO THE END OF CONSTRUCTION, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 14. THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES," WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.

SURVEY NOTES:

- 1. THE EXISTING CONDITIONS SHOWN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB BETWEEN SEPTEMBER 2017 AND OCTOBER 2017. THE HORIZONTAL AND VERTICAL VALUES FOR THESE ROADWAYS ARE BASED ON CTNAD 1983 AND NAVD88 DATUMS.
- 2. THE CONTRACTOR SHALL HAVE A CONNECTICUT REGISTERED LAND SURVEYOR AVAILABLE TO RESET ANY MONUMENTS DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. A SURVEY SHALL BE PROVIDED BY THE CONTRACTOR TO ENSURE THE MONUMENTATION HAS BEEN RESET TO ITS ORIGINAL LOCATION.

EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF—SITE AREAS AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO THE OWNER.
- 2. THE CONTRACTOR MUST INSPECT AND MAINTAIN EROSION CONTROL MEASURES AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- 4. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND SHALL CLEAN SEDIMENT AND DEBRIS FROM THE ENTIRE STORM DRAINAGE SYSTEM.
- 5. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- 6. THE CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- 7. PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE WATERTOWN AND THOMASTON WETLAND AGENT AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED AS DIRECTED BY THE WETLAND AGENT.



DESIGNER:
EAN

DRAFTER:
JE

CHECKED BY:
CF

APPROVED BY: SON

Engineers Scientists Planners Designers

NOT ISSUED FOR CONSTRUCTION DATE: FEBRUARY, 2020

NAUG THOMASTON signers

PROJECT TITLE:

CADD FILENAME: GNA-4222400.DWG

NAUGATUCK RIVER GREENWAY
THOMASTON-WATERTOWN DESIGN PROJECT
LEG

THOMASTON, CONNECTICUT

DRAWING NO.:

GRAWING NO.:

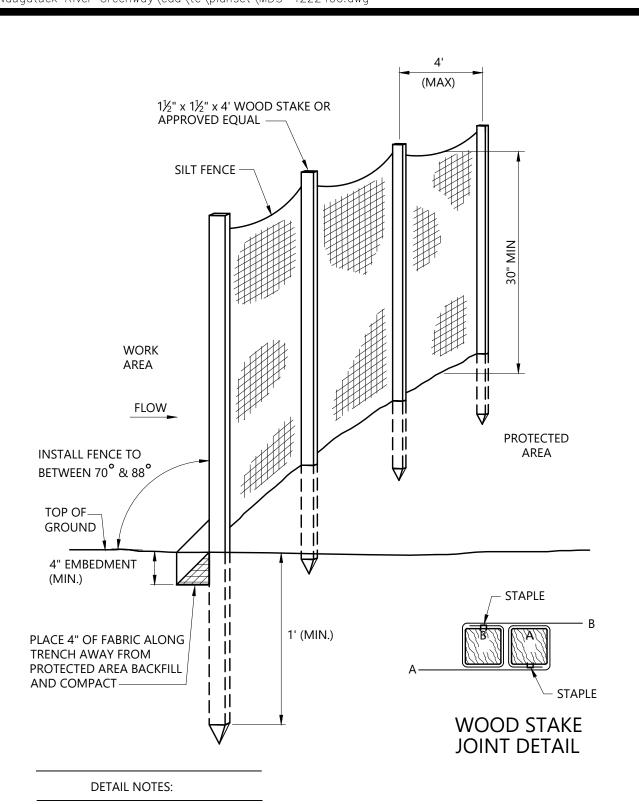
ONA-01

SHEET NO.:

02 OF 17

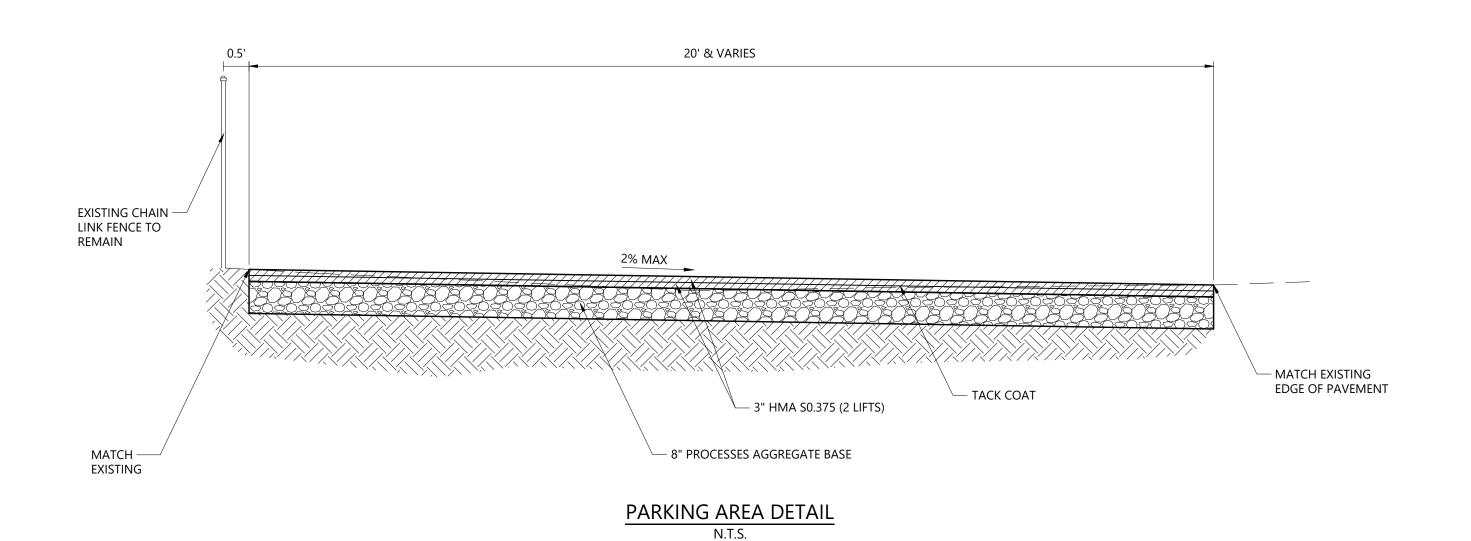
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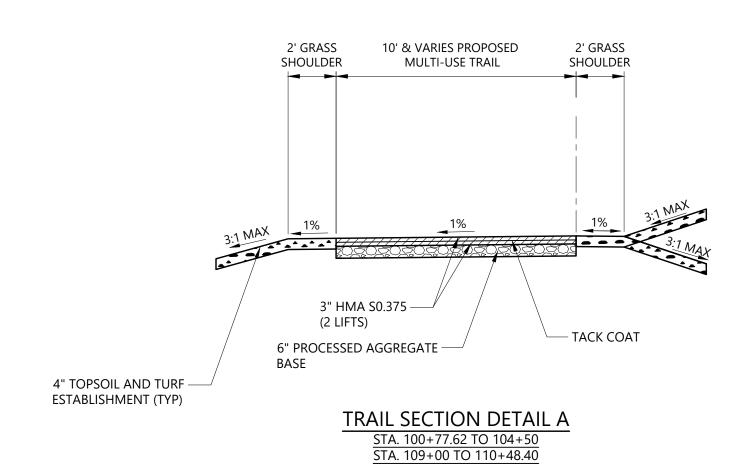
42224.00

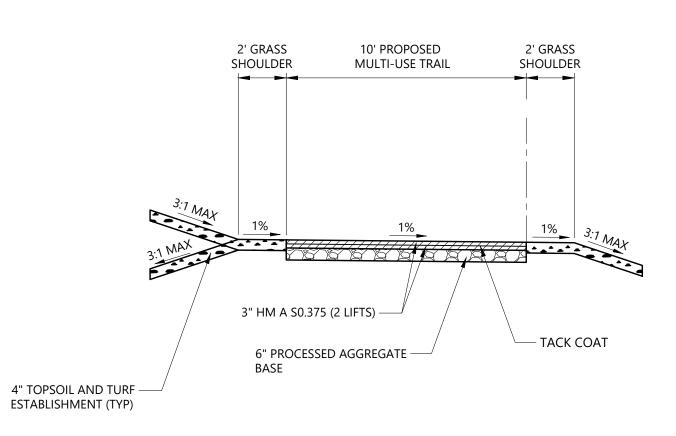


- THE CONTRACTOR SHALL MAINTAIN OR REPLACE THE SEDIMENTATION CONTROL SYSTEM THROUGHOUT THE CONSTRUCTION DURATION AND UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- 2. THE CONTRACTOR SHALL INSPECT THE SYSTEM ONCE A WEEK AND WITHIN 12 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER.
- 3. THE CONTRACTOR SHALL CLEANOUT ACCUMULATED SEDIMENT WHEN ONE HALF OF THE ORIGINAL HEIGHT OF THE SYSTEM IS FILLED WITH SEDIMENT, OR AS ORDERED BY THE ENGINEER.
- 4. FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL CLEAN ALL DRAINAGE FACILITIES OF ANY ACCUMULATED SEDIMENT AND TRANSPORT SEDIMENT OFF SITE.
- 5. ALL COSTS ASSOCIATED WITH INSTALLING, MAINTAINING AND THE REMOVAL OF SILT FENCE SHALL BE INCLUDED IN THE CONTRACT UNIT COST PER LINEAR FOOT FOR "SEDIMENTATION CONTROL SYSTEM"

SEDIMENTATION CONTROL SYSTEM







TRAIL SECTION DETAIL B
STA. 104+50 TO 109+00

DESIGNER: EAN	
DRAFTER: JE	
CHECKED BY: CF	
APPROVED BY:	SON



PROJECT TITLE:	TOWN:
NAUGATUCK RIVER GREENWAY	
THOMASTON-WATERTOWN DESIGN PROJECT	DRAWING
CADD FILENAME: MDS-4222400.DWG	i

HOMASTON, CONNECTICUT	PROJECT NO.: 4224.00	
	DRAWING NO.:	
TITLE:	MDS-01	
MISCELLANEOUS	SHEET NO.:	
DETAILS	03 OF 17	

SPECIFICATIONS

6' POLY VINYL FORMED CLASSIC BENCH WITH BACK. FRAME IS SURFACE MOUNT DESIGN.

COATED WITH A 1/8" TO 1/4" THICK PLASTISOL ULTRAVIOLET STABILIZED VINYL COATING FUSED AND BAKED TO A 90% GLOSS.

SEAT HEIGHT IS 18" APPROXIMATELY, BACK HEIGHT IS 31" APPROXIMATELY, TOTAL OVERALL DIMENSIONS ARE 72" X 27 1/2" APPROXIMATELY.

TOTAL OVERALL DIMENSIONS ARE 72" X 27 1/2" APPROXIMATELY.
SEAT IS MADE FROM 11 GA STEEL.

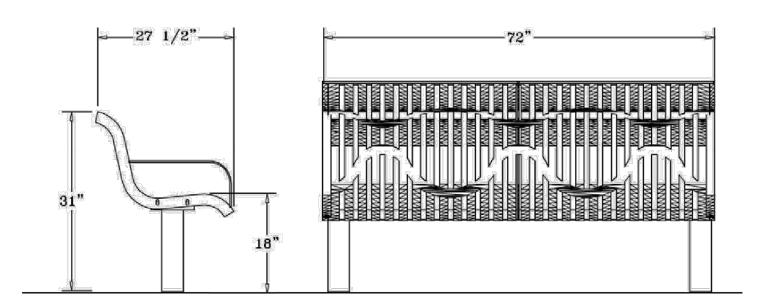
ALL CENTER BRACES ARE MADE FROM 1 1/2" X 1/4" FLAT STEEL

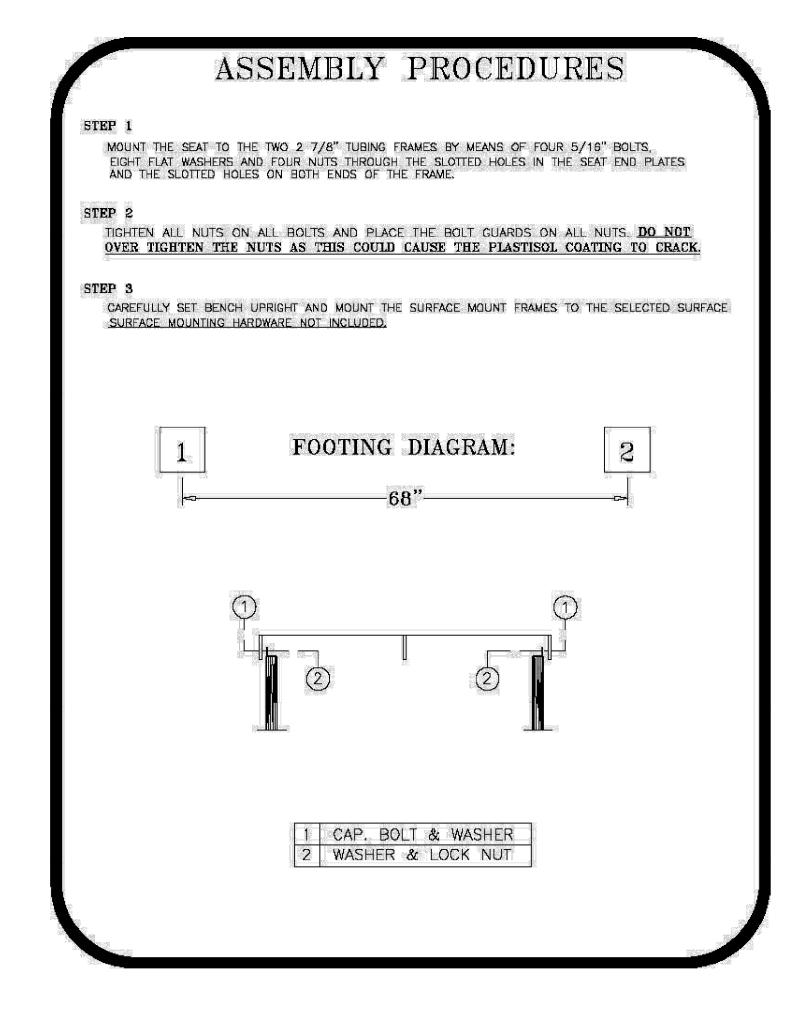
FRAME IS MADE OF 2 7/8" TUBING WELDED TO 1/4" X 6" ROUND STEEL PLATES POWDER COATED WITH POLYESTER ELECTROSTATIC PAINT.

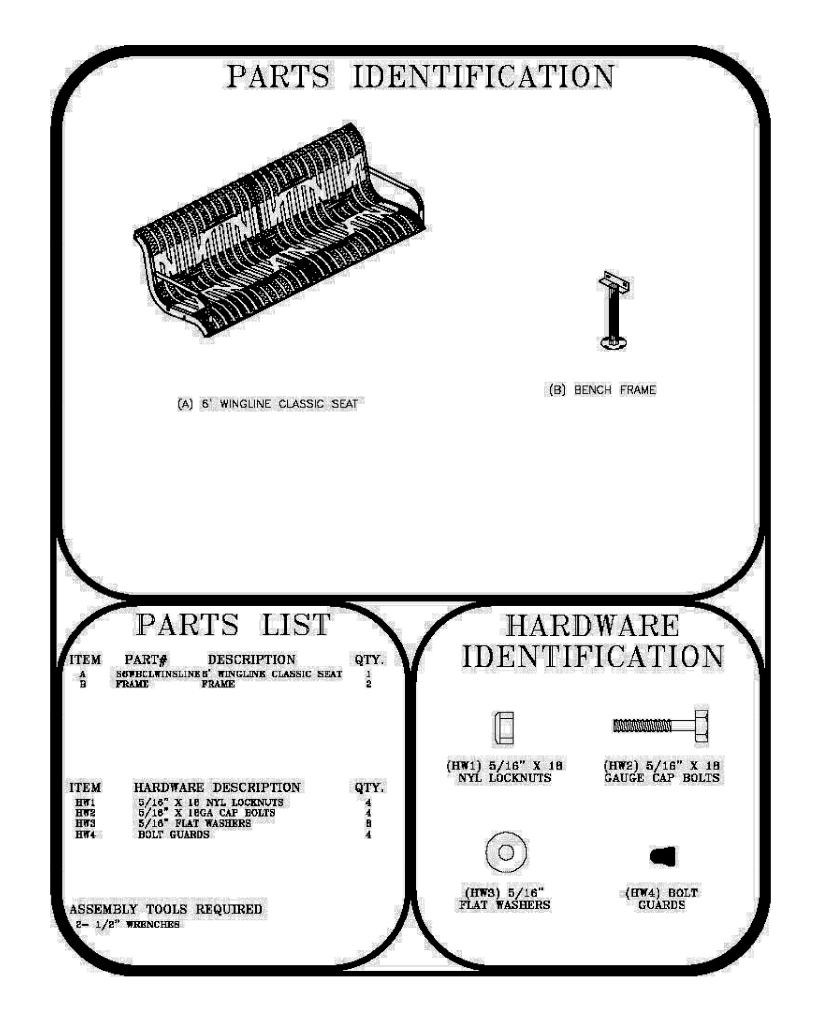
ALL WINGLINE BENCHES CAN BE ORDERED WITH OR WITHOUT ARMS.

ALL HARDWARE IS NON-CORROSIVE.

WEIGHT FOR THE BEWBCLASSIC WINGLINESM IS 140 LBS.

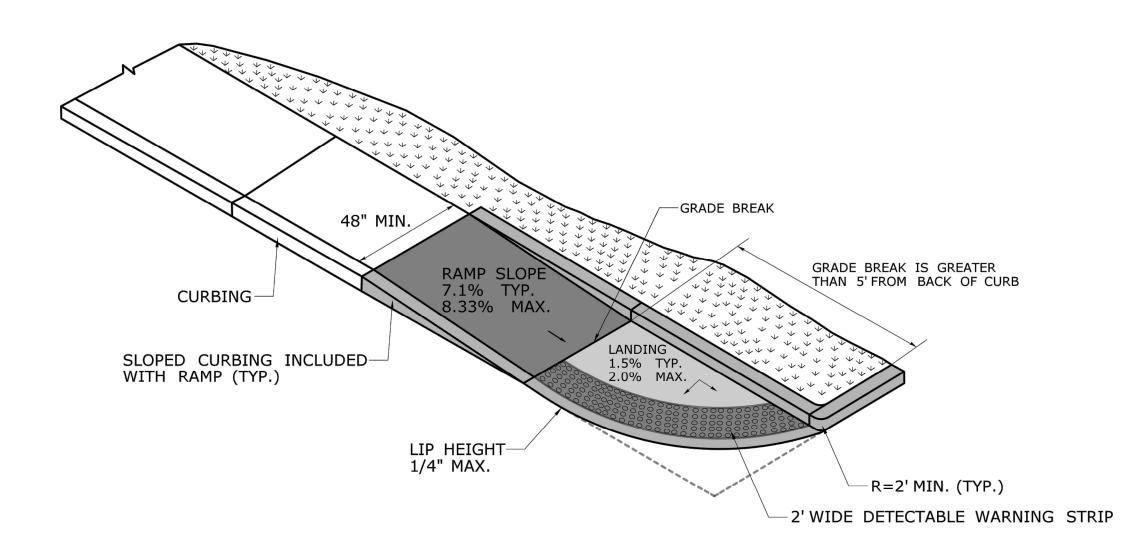




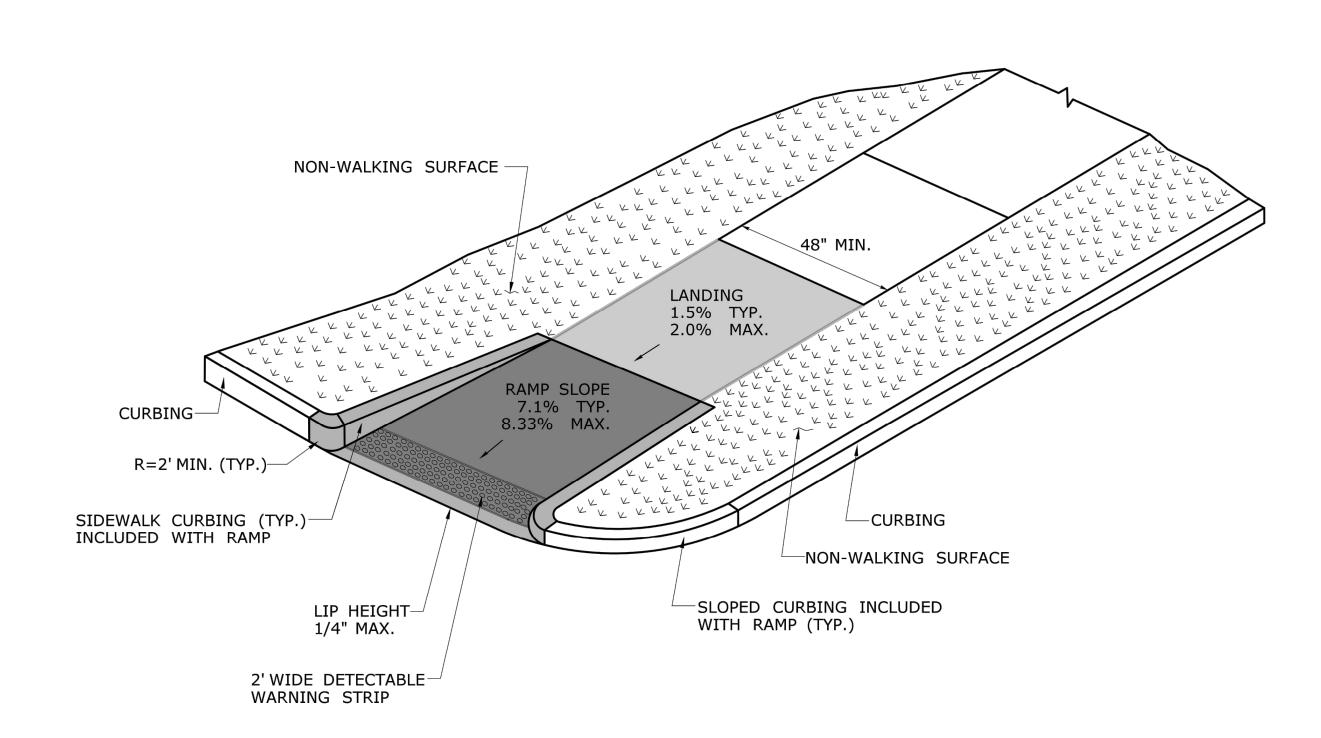


6' CLASSIC WINGLINE STYLE BENCH

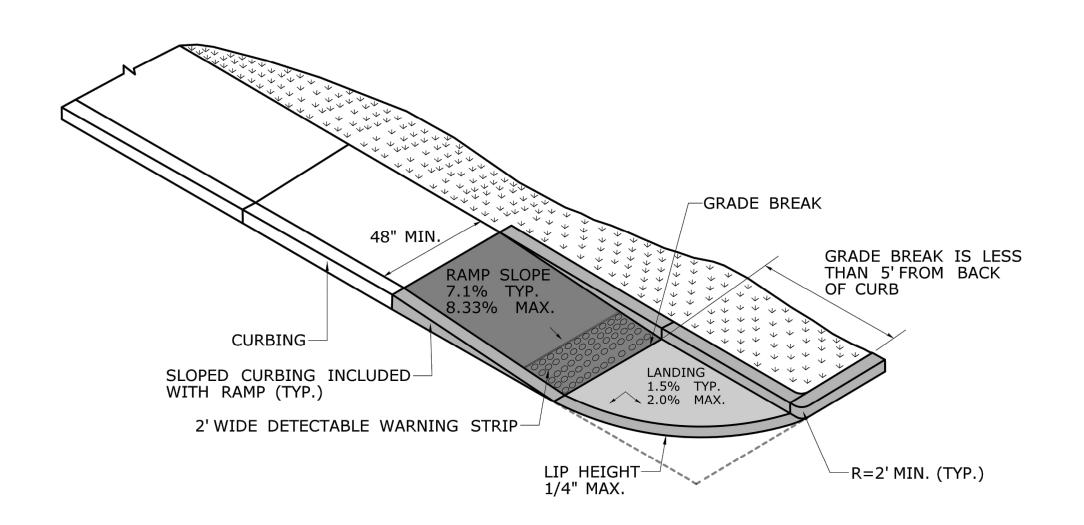
		DESIGNER: EAN		PROJECT TITLE:	TOWN: THOMASTON, CONNECTICUT	PROJECT NO.: 42224.00
		DRAFTER: JE	Vhb Engineers Scientists Planners Designers	NAUGATUCK RIVER GREENWAY THOMASTON-WATERTOWN DESIGN PROJECT	DRAWING TITLE:	DRAWING NO.: MDS-02
DEV	DECODIDATION OUTSTAND	CHECKED BY:	Engineers Scientists Planners Designers		MISCELLANEOUS	SHEET NO.:
REV	DESCRIPTION SHEET. NO. REVISIONS	APPROVED BY: SON	NOT ISSUED FOR CONSTRUCTION DATE: FEBRUARY, 2020	CADD FILENAME: MDS-4222400.DWG	DETAILS	04 OF 17



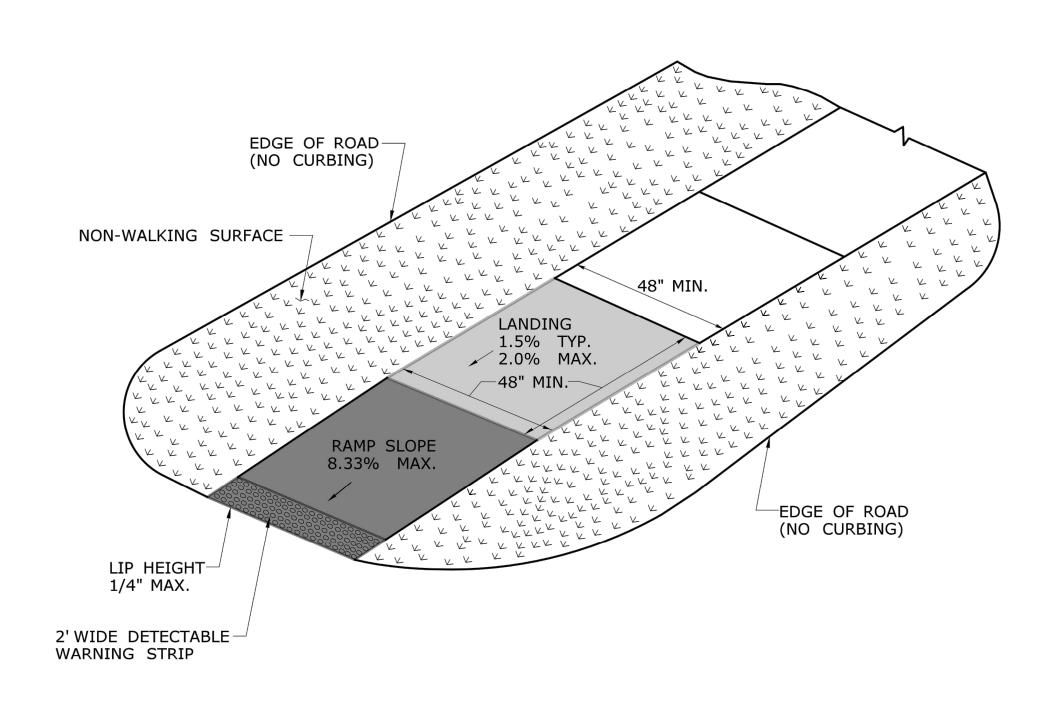
SINGLE DIRECTION RAMP WITHOUT NON-WALKING SURFACE GRADE BREAK GREATER THAN 5' (TYPE 14)



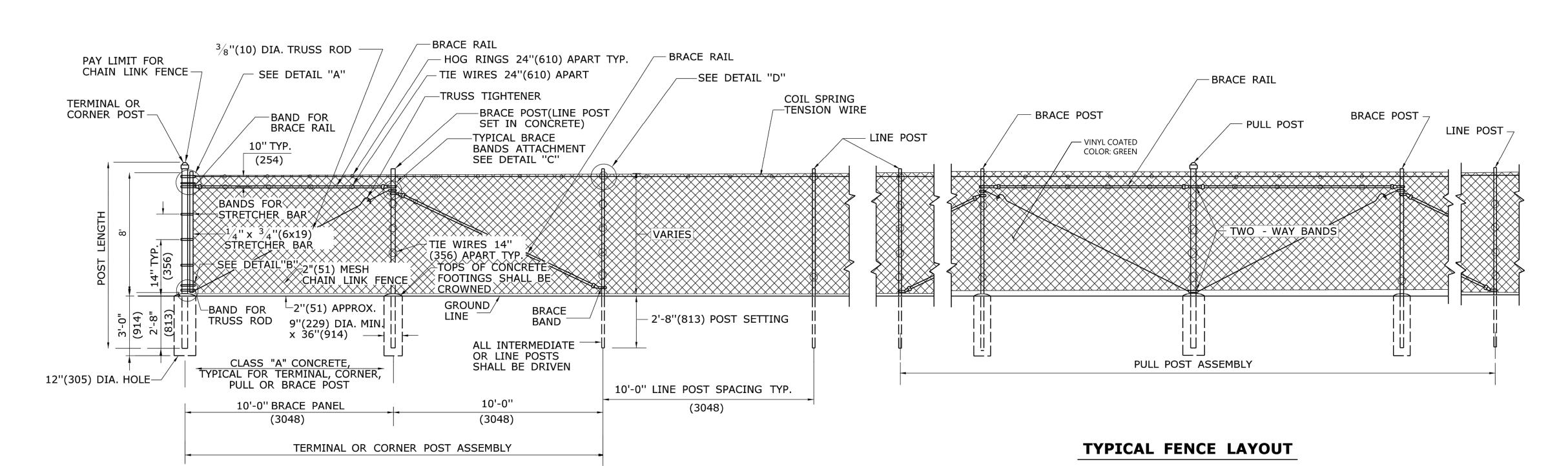
SINGLE DIRECTION - RETURN CURB WITH NON-WALKING SURFACE (TYPE 16)



SINGLE DIRECTION RAMP WITHOUT NON-WALKING SURFACE GRADE BREAK LESS THAN 5' (TYPE 15)



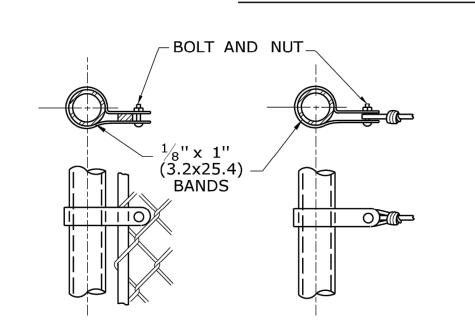
SINGLE DIRECTION - NO CURB WITH NON-WALKING SURFACE (TYPE 17)



GENERAL NOTES:

- REFER TO SPECIFICATIONS FOR LOCATION OF PULL POST ASSEMBLIES.
- 2. ALL SQUARE AND ROUND POSTS WILL BE CAPPED TO PREVENT WATER FROM ENTERING.
- 3. WHERE ROCK IS ENCOUNTERED, IT SHALL BE DRILLED AND THE POSTS SET IN CONCRETE OR MORTAR.
- 4. FENCE SHALL BE PLACED WITH FABRIC FACING OUTSIDE HIGHWAY RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.

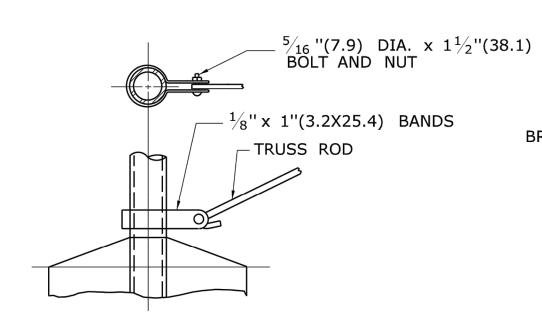
ROUND PIPE TERMINAL CORNER OR PULL POST



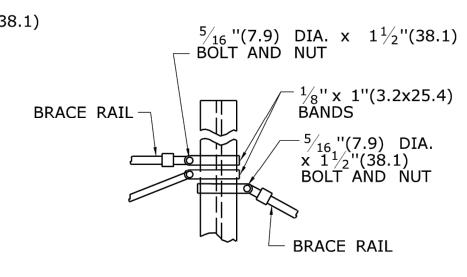
DETAIL "A"

STRETCHER BAR AND TENSION

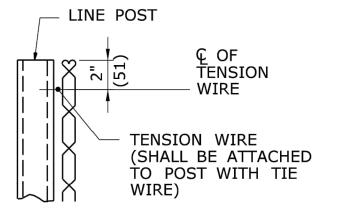
WIRE ATTACHMENTS



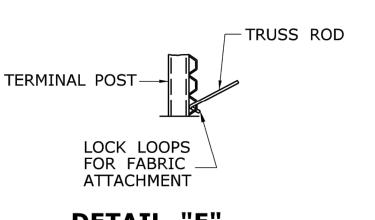
DETAIL "B"
TRUSS ROD ATTACHMENT



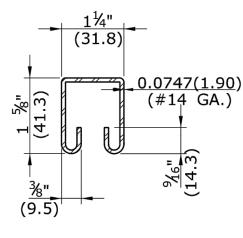
DETAIL "C"
ATTACHMENT OF BRACE RAILS
TO LINE POSTS (TYPICAL)



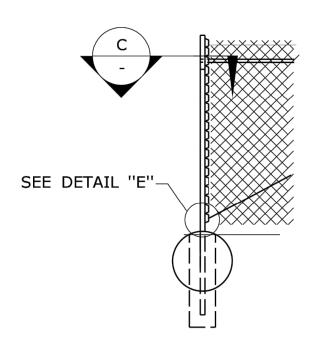
DETAIL "D"
LOCATION OF
TENSION WIRE



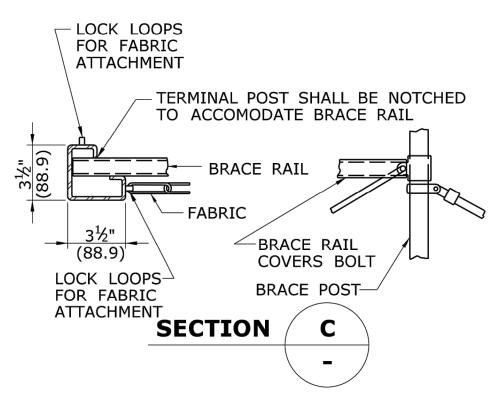
DETAIL "E"
TRUSS ROD
ATTACHMENT



DETAIL "F"
BRACE RAIL



TERMINAL, CORNER OR PULL POST



FABRIC AND BRACE
RAIL ATTACHMENT

				FENCE H	HEIGHT	
			6'(1.8m) OR LE	ESS	GREATER THAN 6'(1.8m)	
LINE BRACE OR INTERMEDIATE	TYPE	MATERIAL	DIMENSIONS INCHES(mm)	WEIGHT LBS/FT(kg/m)	DIMENSIONS INCHES(mm)	WEIGHT LBS/FT(kg/m)
POST	"C"	STEEL	1.87 X 1.62 (47.5x41.1)	2.40(3.57)	2.25 x 1.70(57.2x43.2)	2.78(4.14)
		STEEL CLASS 1	1.90(48.3) O.D.	2.72(4.05)	2.37(60.2) O.D.	3.65(5.43)
	PIPE	STEEL CLASS 2		2.28(3.39)		3.12(4.64)
		ALUM. ALLOY		0.94(1.40)		1.25(1.86)
BRACE RAIL	ROLL- FORMED*	STEEL	1.62 X 1.25 (41.1x31.75)	1.35(2.01)		
(OR TOP RAIL		STEEL CLASS 1	1.31(33.3) O.D.	1.68(2.50)	1.66(42.2) O.D.	2.27(3.38)
WHEN SPECIFIED)	PIPE	STEEL CLASS 2		1.34(1.99)		1.84(2.74)
Si Leli ILD)		ALUM. ALLOY	1.62(41.1) O.D.	0.78(1.16)	1.62(41.1) O.D.	0.78(1.16)
TERMINAL CORNER OR PULL POST	PIPE	STEEL CLASS 1 STEEL CLASS 2 ALUM. ALLOY	2.37(60.2) O.D.	3.65(5.43) 3.12(4.64) 1.25(1.86)	2.87(72.9) O.D.	5.79(8.62) 4.64(6.91) 2.00(2.98)

NOTE: A MINUS TOLERANCE OF 5% IN SIZE AND WEIGHT SHALL BE ALLOWED FOR THESE MEMBERS, BUT WILL NOT APPLY TO THE ZINC OR POLYVINYL CHLORINE COATING. * DIMENSIONS AND WEIGHT ARE FOR A FENCE HEIGHT OF 9'(2.7m) OR LESS.

MINIMUM DIMENSIONS AND WEIGHTS FOR POSTS AND RAILS

	DESIGNER: EAN		PROJECT TITLE:	TOWN: THOMASTON, CONNECTICUT	PROJECT NO.: 4224.00
	DRAFTER: JE	Vhb	NAUGATUCK RIVER GREENWAY THOMASTON-WATERTOWN DESIGN PROJECT		DRAWING NO.: MDS-04
REV. DATE DESCRIPTION SHEFT, NO.	CHECKED BY:	Engineers Scientists Planners Designers		MISCELLANEOUS	SHEET NO.:
REV. DATE DESCRIPTION SHEET. NO. REVISIONS	APPROVED BY: SON	NOT ISSUED FOR CONSTRUCTION DATE: FEBRUARY, 2020	CADD FILENAME: MDS-4222400.DWG	DETAILS	06 OF 17

V10Engineers Scientists Planners Designers

NOT ISSUED FOR CONSTRUCTION DATE:FEBRUARY, 2020

SCALE IN FEET

SHEET. NO.

CHECKED BY: CF

APPROVED BY: SON

DRAWING NO .:

CONTROL POINT

TIE PLANS

CTR-01

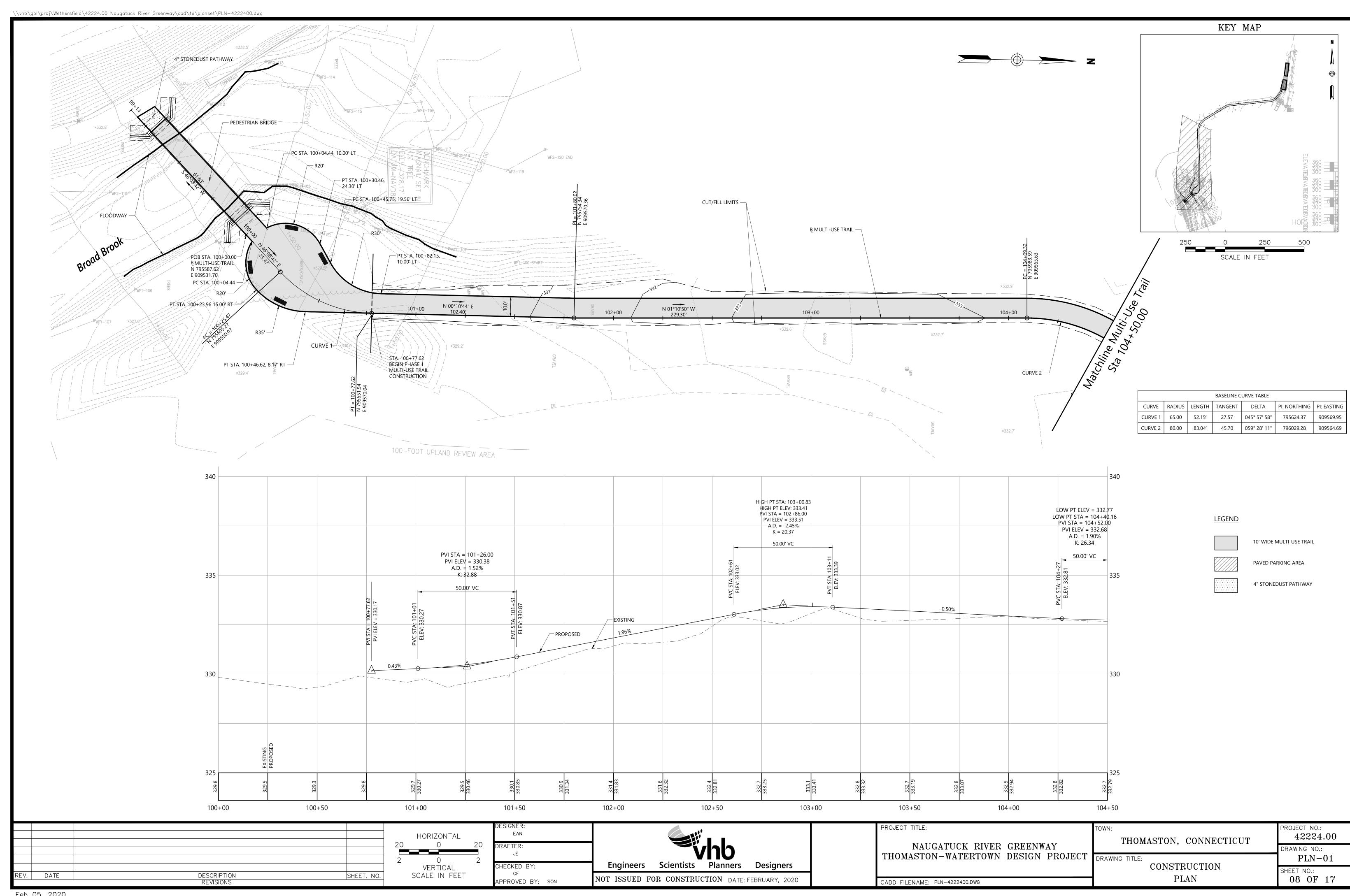
SHEET NO.: **07 OF 17**

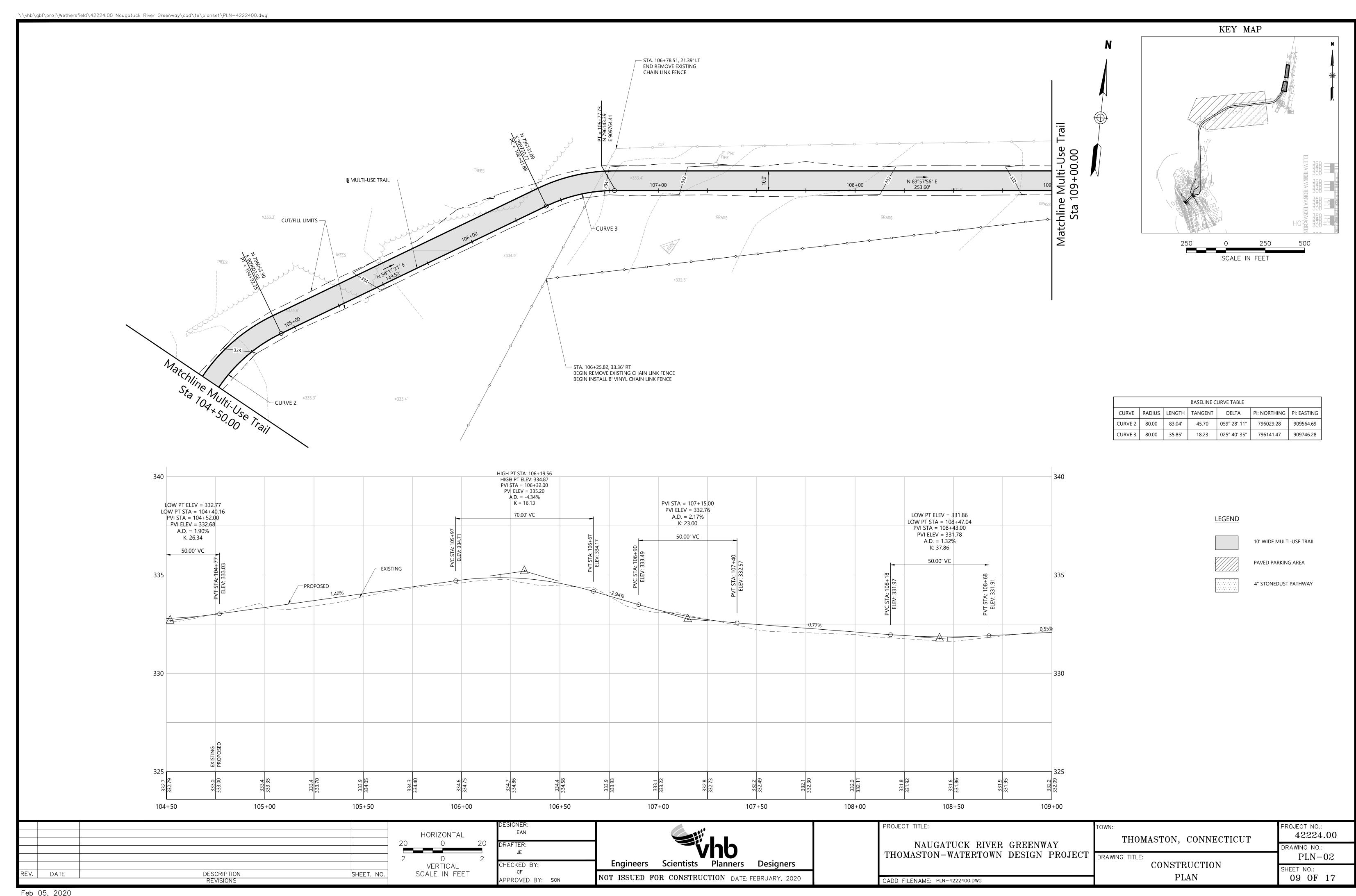
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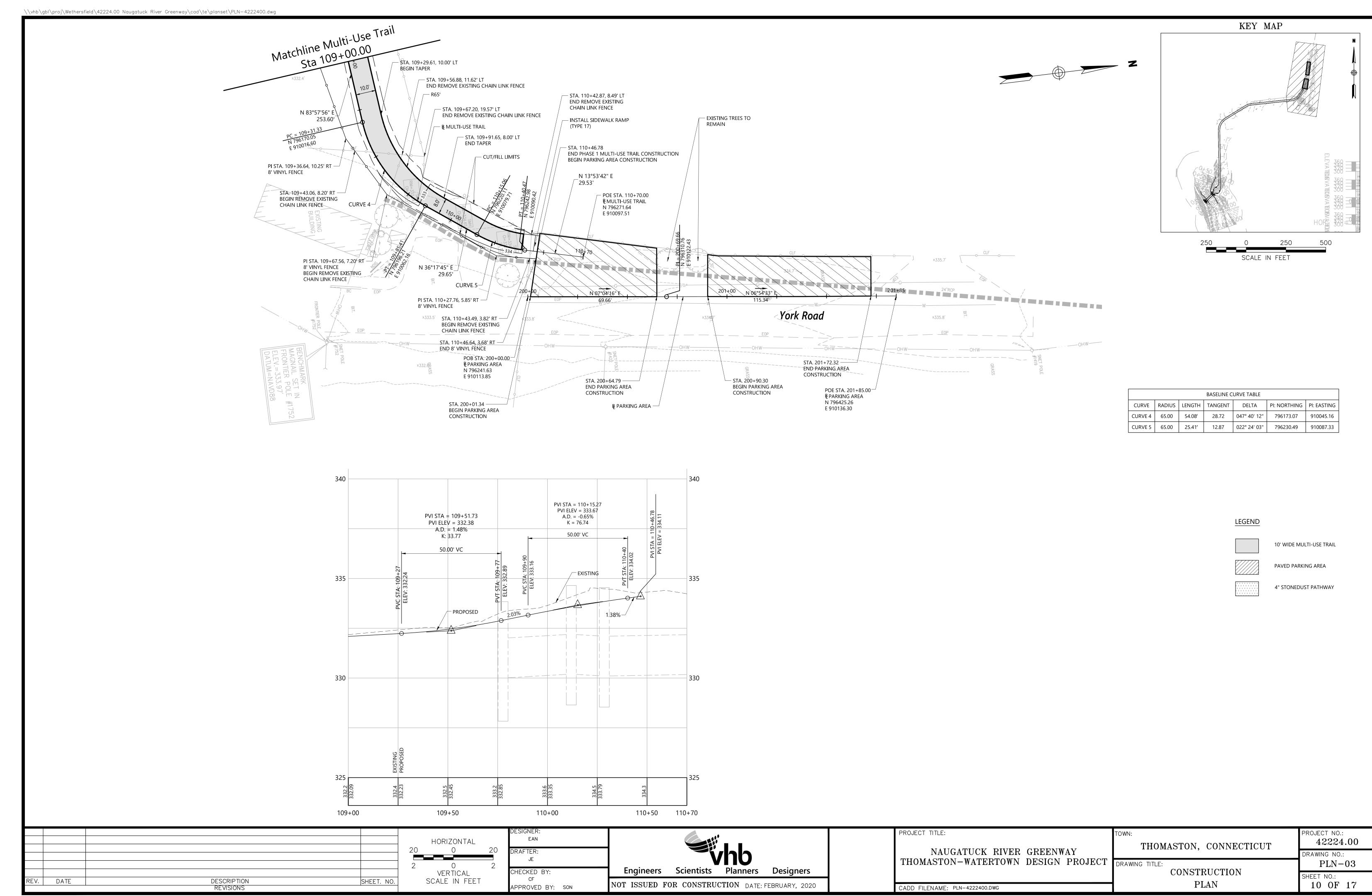
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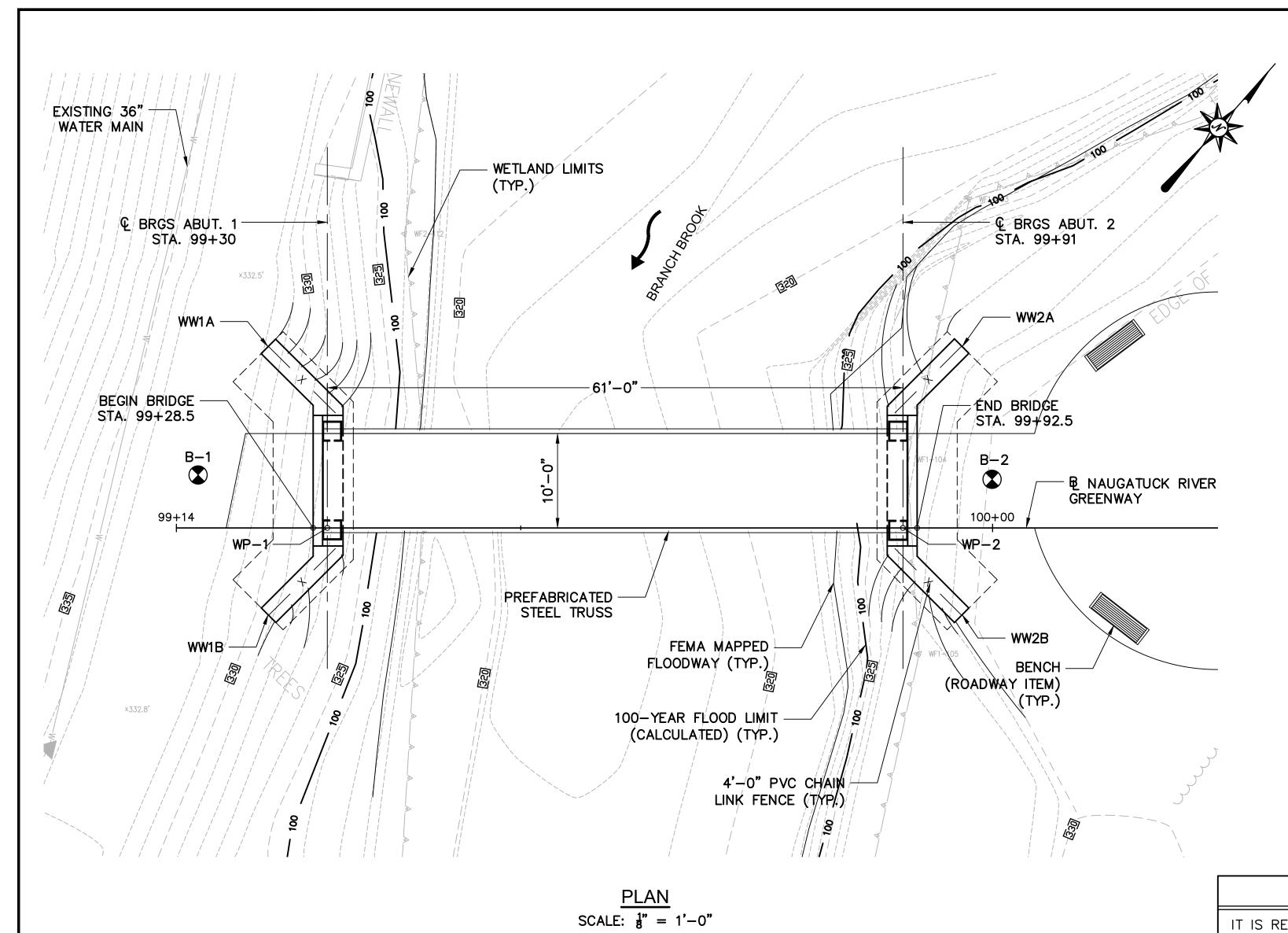
REV. DATE

DESCRIPTION REVISIONS









DRAWING INDEX GENERAL PLAN, SECTION, AND ELEVATION S-1 S-2 LAYOUT PLAN S-3BORING LOGS S-4 STAGE CONSTRUCTION PLAN S-5 SUBSTRUCTURE DETAILS - 1 S-6 SUBSTRUCTURE DETAILS - 2 S-7 SUPERSTRUCTURE DETAILS

INSPECTION OF FIELD WELDS						
METHOD	UNIT	QUANTITY				
ULTRASONIC	INCH	0				
MAGNETIC PARTICLE	FEET	0				

CONCRETE DISTRIBUTION						
SUPERSTRUCTURE	C.Y.	0				
SUBSTRUCTURE	C.Y.	45				
FOOTINGS	C.Y.	45				
TOTAL	C.Y.	90				

LEGEND

FLOOD NOTE

FLOODPLAIN LIMITS SHOWN AT CALCULATED ELEVATIONS FLOODWAY LIMITS TAKEN FROM FEMA FLOOD MAPPING. REFER TO THE FOLLOWING FOR DETAILED INFORMATION:

- TOWN OF THOMASTON FIRM, PANEL 5 OF 6 - TOWN OF WATERTOWN FLOOD INSURANCE STUDY FLOODWAY DATA, TABLE 2
- TOWN OF WATERTOWN FLOOD INSURANCE STUDY FLOOD PROFILE, 03P

NOTICE TO BRIDGE INSPECTORS

IT IS RECOMMENDED THAT CONNDOT'S BRIDGE SAFETY PROCEDURES BE FOLLOWED WHEN INSPECTING THIS BRIDGE FOR, BUT NOT LIMITED TO ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATIONS.

COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
TRUSS BOTTOM CHORDS	S-7
TRUSS DIAGONALS	S-7

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016), SUPPLEMENTAL SPECIFICATIONS DATED JULY, 2019 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (2009) UP TO AND INCLUDING 2015 INTERIMS AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL, 2003 EDITION UP TO AND INCLUDING 2019 REVISIONS.

MATERIAL STRENGTHS:

CLASS PCC 04460: REINFORCEMENT (ASTM A615 GRADE 60) STRUCTURAL STEEL (AASHTO M270, GRADE 50W) f'c = 4,000 psify=60,000 psi fy=50,000 psi

LIVE LOAD:

AASHTO H-10 STANDARD DESIGN VEHICLE: 90 PSF UNIFORM PEDESTRIAN LOAD:

FUTURE PAVING ALLOWANCE: NONE

FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL

PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

CONCRETE NOTES

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE THREE INCHES OF COVER UNLESS DIMENSIONED OTHERWISE

REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1" JOINT FILLER FOR BRIDGES."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

PREFABRICATED STEEL TRUSS: THIS DRAWING IS BASED OFF OF A CONTECH 'CONTINENTAL STEEL TRUSS". THE CONTRACTOR CAN ELECT TO USE A SIMILAR TRUSS DESIGN AS APPROVED BY THE ENGINEER. SEE SPECIAL PROVISION.

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	ABUTMENT AND WINGWALL FOOTINGS	PCC04460
	ABUTMENT AND WINGWALL STEMS, CONCRETE BEARING PEDESTALS, CHEEKWALLS	PCC04460

	TRANSPORTATION DATA						
MEMBER	MEMBER SHIPPING LENGTH SHIPPING HEIGHT SHIPPING WIDTH SHIPPING WEIGHT						
BRIDGE	61'-0"	5'-8"	12'-0"	18,800 LBS			

B NAUGATUCK

RIVER GREENWAY 10'-0" BRIDGE RAILING (TYP.) TIMBER DECKING (LEVEL) - STRINGER (TYP.) - FLOORBEAM

> TYPICAL SECTION SCALE: $\frac{1}{2}$ " = 1'-0"

Companies ENGINEERING

ENVIRONMENTAL LAND SURVEYING

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GREENWAY BRANCH BROOK VECTICUT

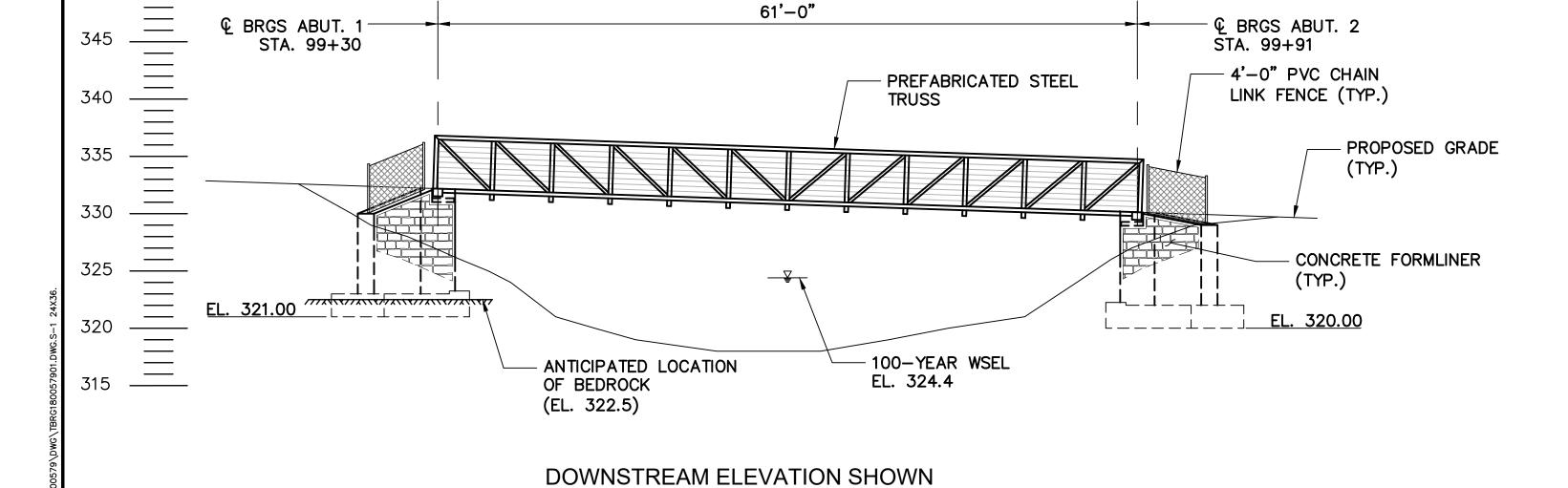
Designed T.M.B. /D.W.H. Drawn Reviewed

Scale AS NOTED Project No 1800579 Date 12/30/2019 CAD File: TBRG180057901

GENERAL PLAN, SECTION, AND ELEVATION

Sheet No.

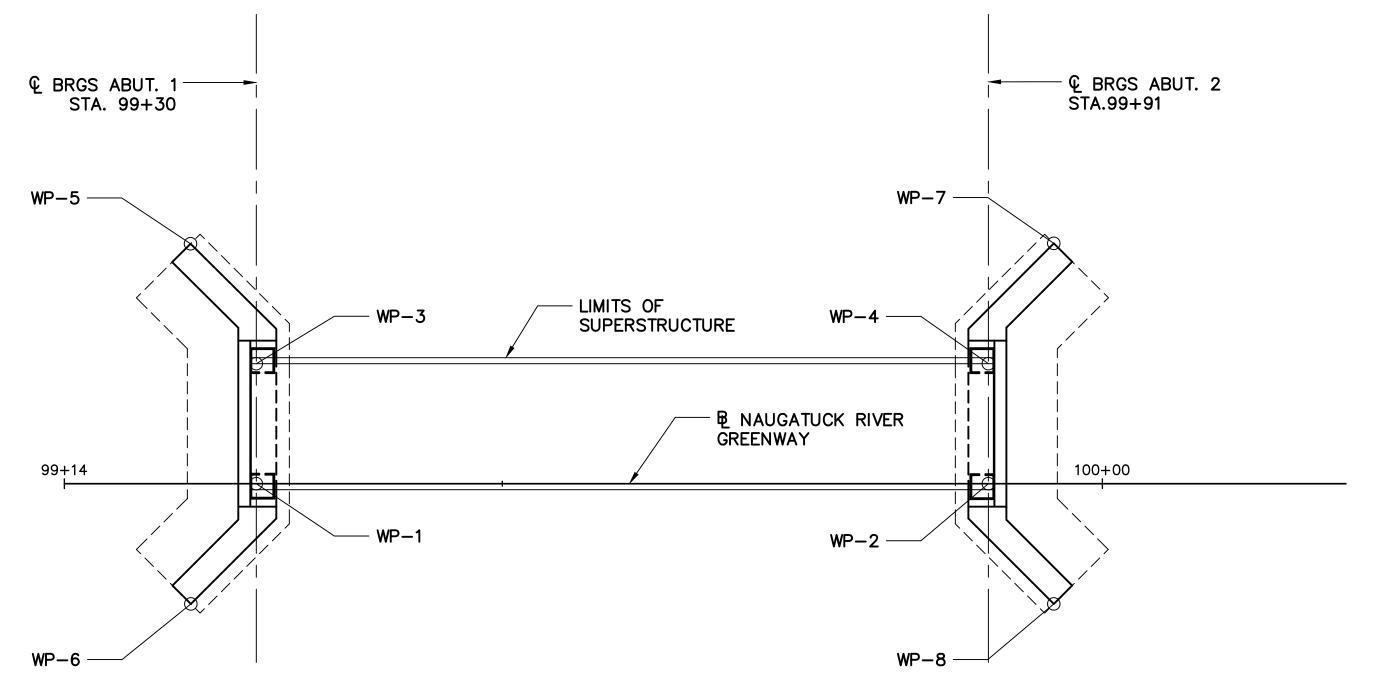
S-1



SCALE: $\frac{1}{8}$ " = 1'-0"

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350



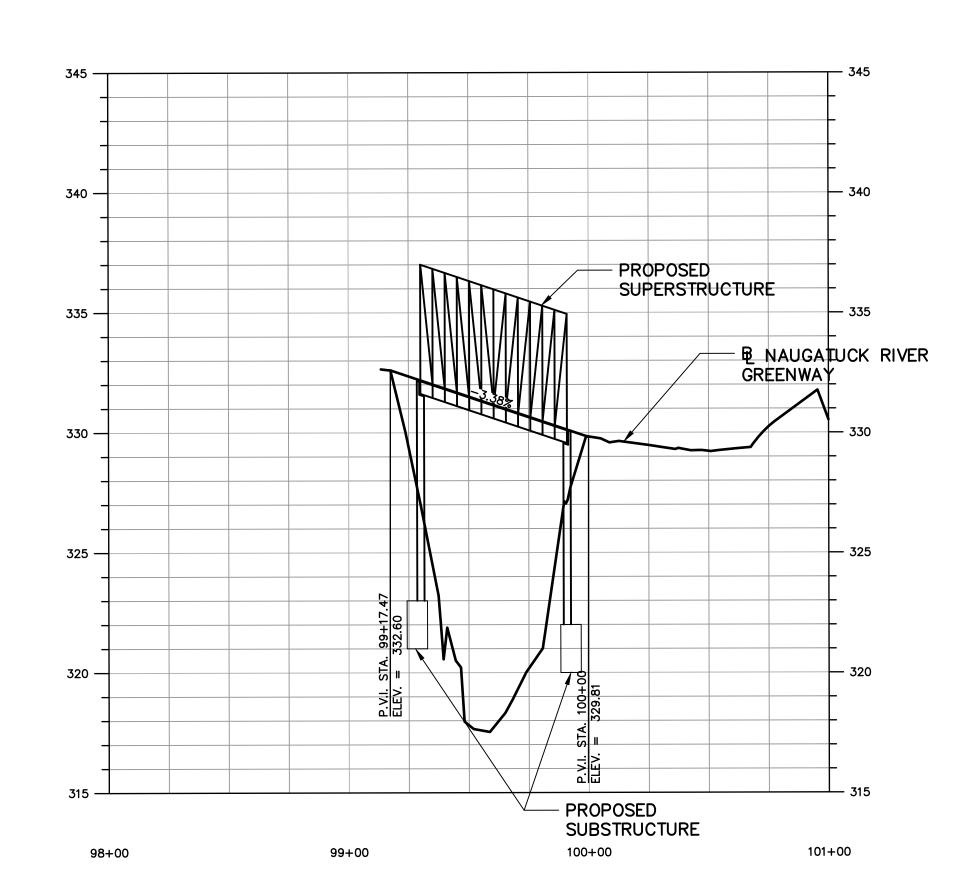


NOTES

- FOR COMPLETE BASELINE GEOMETRY, SEE THE HORIZONTAL ALIGNMENT SHEETS.
- 2. REFER TO SHEET S-5 AND S-6 FOR THE GEOMETRY OF THE SUBSTRUCTURE.

	WORKING POINT COORDINATES											
WP	LOCATION	NORTHING	EASTING									
WP-1	€ BRGS ABUT. 1 AND BASELINE	795538.78	909480.87									
WP-2	€ BRGS ABUT. 2 AND BASELINE	795581.04	909524.85									
WP-3	€ BRGS ABUT. 1 AND NORTH GUTTERLINE	795545.99	909473.94									
WP-4	€ BRGS ABUT. 2 AND NORTH GUTTERLINE	795588.25	909517.93									
WP-5	WINGWALL 1A	795549.40	909463.06									
WP-6	WINGWALL 1B	795527.78	909483.88									
WP-7	WINGWALL 2A	795599.26	909514.92									
WP-8	WINGWALL 2B	795577.59	909535.73									

LAYOUT PLAN SCALE: 1/8" = 1'-0"

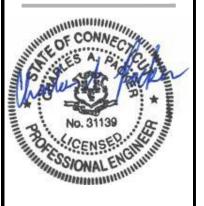


PROFILE HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

Companies ARCHITECTURE

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GREENWAY
R BRANCH BROOK
NECTICUT

Drawn T.M.B./D.W.H. Reviewed 1800579 Project No.

12/30/2019 CAD File: TBRG180057902

LAYOUT PLAN

Sheet No.

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Tel: (203) 683-4155						E PRO						J24287			N. Coo										
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5				<u> </u>										trace fine Gravel, trace Roots											
_		5 t	o 7	S3	24	18	SS	6	5	6	19			Medium	ium dense, light brown, fine to medium SAND,										
												Possible	∍ Fill	little Silt, trace fine Gravel											
		7 t	o 9	S4	24	20	SS	6	7	5	6	1 0001010		Medium		_				ım SAND					
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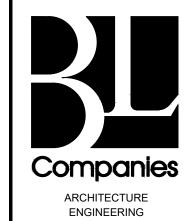
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	Naugat	uck, CT	06770		TOWN: Thomaston, CT										DTE F	ile No	o.: 003	8-010.	00				
					PRO	PROJECT NAME: Naugatuck River Greenway Pedestrian Brid STATE PROJECT NUMBER: DEPA00002024287																	
	Tel: (2	03) 683	-4155												N. Cod								
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		7 to	7.42	S4	5	5	SS	50/5"							SAND, some fine to coarse Gravel, trace Silt Very dense, light brown/gray, fine to medium								
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10		9 to	14	C1	60	50	С								-			-	•				
-		0 10	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	- 00		Ť							Fairqu	quality, moderately hard, slightly weathered, black/gray, fine to coarse grained, IIESS and SCHIST with Quartz inclusions core times: 5.1, 4.8, 4, 4.3, 5.1 ft/min.) (RQD = 32/60" = 53%)								
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														(с									
												Dadua	ماد										
15		14 to	o 19	C2	60	53	С					Bedro	CK	Fair quality, moderatly hard, slightly weathered, black/gray, fine to coarse grained, GNIESS and SCHIST with Quartz inclusions									
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	Tal. (2	000 600	1155														N. Coordinate								
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	ce ⊑ieva Started:				Utilize	-d		Ca	sing	Х	<u> </u>	Auger I		viud	Sam	pier		<u> </u>	re Barre I) 					
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														Poor quality, moderately hard, slightly weathered black/gray/white, fine to coarse grained, GNIESS and SCHIST with Quartz inclusions (core times: 3.5, 3.2, 5.6, 3, 5.1 min/ft)											
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NOTES

1. BORINGS TAKEN BY SOIL TESTING ON OCTOBER 3 AND OCTOBER 4, 2019.



ENVIRONMENTAL LAND SURVEYING

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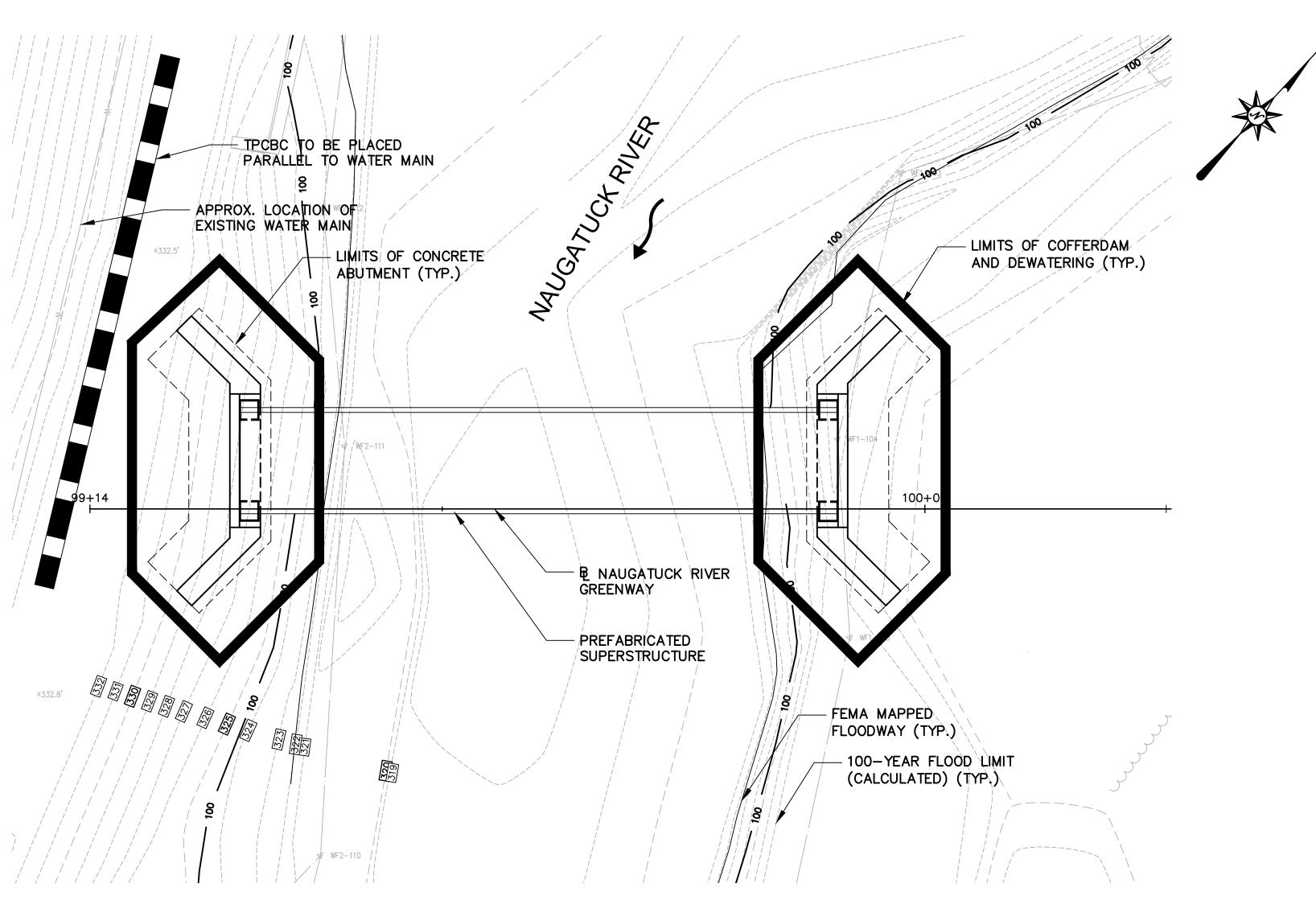
NAUGATUCK RIVER GREENWAY
PEDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

Designed Drawn T.M.B/D.W.H. Reviewed AS NOTED Scale Project No. 1800579 12/30/2019

CAD File: TBRG180057903

BORING LOGS

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Р	per		PTH		PEN.	REC.				MPLE	R	CHANG	GE:		FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS									
T H	foot		EET 1 - TO	NO.	in	in	Туре	0 - 6	6 12	12 18	18 24	DEPT	Ή		OF WASH WATER, ETC.)									
			02	S1	24	3	SS	6	6	5	11		-	Mediun	Medium dense, brown, fine				arse SA	ND, little				
_														Grave				Gravel, trace Silt						
		3 t	o 5	S2	24	14	SS	4	4	8	10	Crovally	Cand	Medium	dense	. liaht	t browr	n, fine t	to mediu	ım SAND				
5			_									Gravelly	Sand	aı	nd fine t	to coa	arse G	RAVE	_, trace	Silt				
_		5 t	o 7	S3	24	13	SS	6	13	9	15								, fine to avel, tra	medium ace Silt				
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10		910	7 14	5	00	3	٥								ir quality, moderately ha black/gray, fine to c			parse grained,						
_														GNIESS and SCHIST with Quartz inclusions (core times: 5.1, 4.8, 4, 4.3, 5.1 ft/min.)										
												Dodro	ale	(0.	(RQD = 32/60" = 53%)									
15		14 t	o 19	C2	60	53	С					Bedro	CK	Fair d	quality, moderatly hard, slightly weathered,									
_															gray, fine to coarse grained, GNIESS and									
_														(co	SCHIST with Quartz inclusions (core times: 7.8, 4.9, 6.8, 9.8, 8.8 ft/min.)									
20														,			= 37/6			<i>^</i>				
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				l N	lo. of S	Sample	s	l																



WATER HANDLING PLAN

SCALE: 1/8" = 1'-0"

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NOTES

- 1. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN AND NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE. THE SEQUENCE SHOWN IS A SUGGESTED CONCEPT THAT IS CONSIDERED FEASIBLE FOR PERFORMING THE WORK WHILE SATISFYING THE PERMIT REQUIREMENTS OF THIS PROJECT.
- 2. BEST MANAGEMENT PRACTICES (BMP) SHALL BE UTILIZED AS APPROPRIATE AND SHALL BE CONSISTENT WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3. CONSTRUCTION ACTIVITIES SHALL CONFORM TO SECTION 1.10, ENVIRONMENTAL COMPLIANCE FROM THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817, 2016 INCLUDING SUPPLEMENTAL SPECIFICATIONS DATED JULY, 2019, STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION.
- 4. DEWATER, IF NEEDED, SHALL UTILIZE BMP AS APPLICABLE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROVIDING BASE STREAM FLOWS AT ALL TIMES DURING CONSTRUCTION.
- 6. ON THE WEST SIDE OF THE STRUCTURE THERE IS AN EXISTING WATER MAIN. THE CONTRACTOR SHALL UTILIZE APPROPRIATE CONSTRUCTION METHODS IN ORDER TO PREVENT DAMAGE TO THE EXISTING FACILITY.

SUGGESTED SEQUENCE OF CONSTRUCTION

- 1. CONTACT "CALL BEFORE YOU DIG."
- 2. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES, AS REQUIRED.
- 3. INSTALL TEMPORARY COFFERDAM AND DE-WATER THE SITE AS NEEDED.
- 4. EXCAVATE FOR AND CONSTRUCT PROPOSED FOOTINGS.
 5. CONSTRUCT ABUTMENTS AND WINGWALLS AND BACKFILL.
- 6. REMOVE TEMPORARY COFFERDAM AND DEWATERING DEVICES.
- 7. INSTALL PREFABRICATED STEEL SUPERSTRUCTURE.8. PERFORM APPROACH WORK AND RESTORE DISTURBED AREAS.

TEMPORARY HYDRAULIC DATA NAUGATUCK RIVER									
AVERAGE DAILY FLOW	40 cfs								
AVERAGE SPRING FLOW	80 cfs								
2-YEAR FREQUENCY DISCHARGE	450 cfs								
TEMPORARY DESIGN DISCHARGE	450 cfs								
TEMPORARY DESIGN FREQUENCY	2-YEAR								
TEMPORARY WSEL UPSTREAM	323.02 ft								



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IAUGATUCK RIVER GREENWAY
EDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

S

REVISI No. Date

Designed
Drawn

Designed
Drawn T.M.B./D.W.H.
Reviewed C.A.P.
Scale AS NOTED
Project No. 1800579
Date 12/30/2019

Date 12/30 CAD File: TBRG180057904

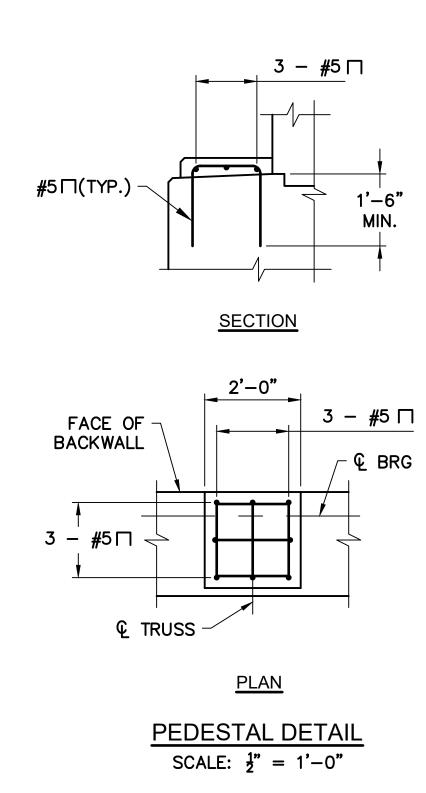
CONSTRUCTION SEQUENCE

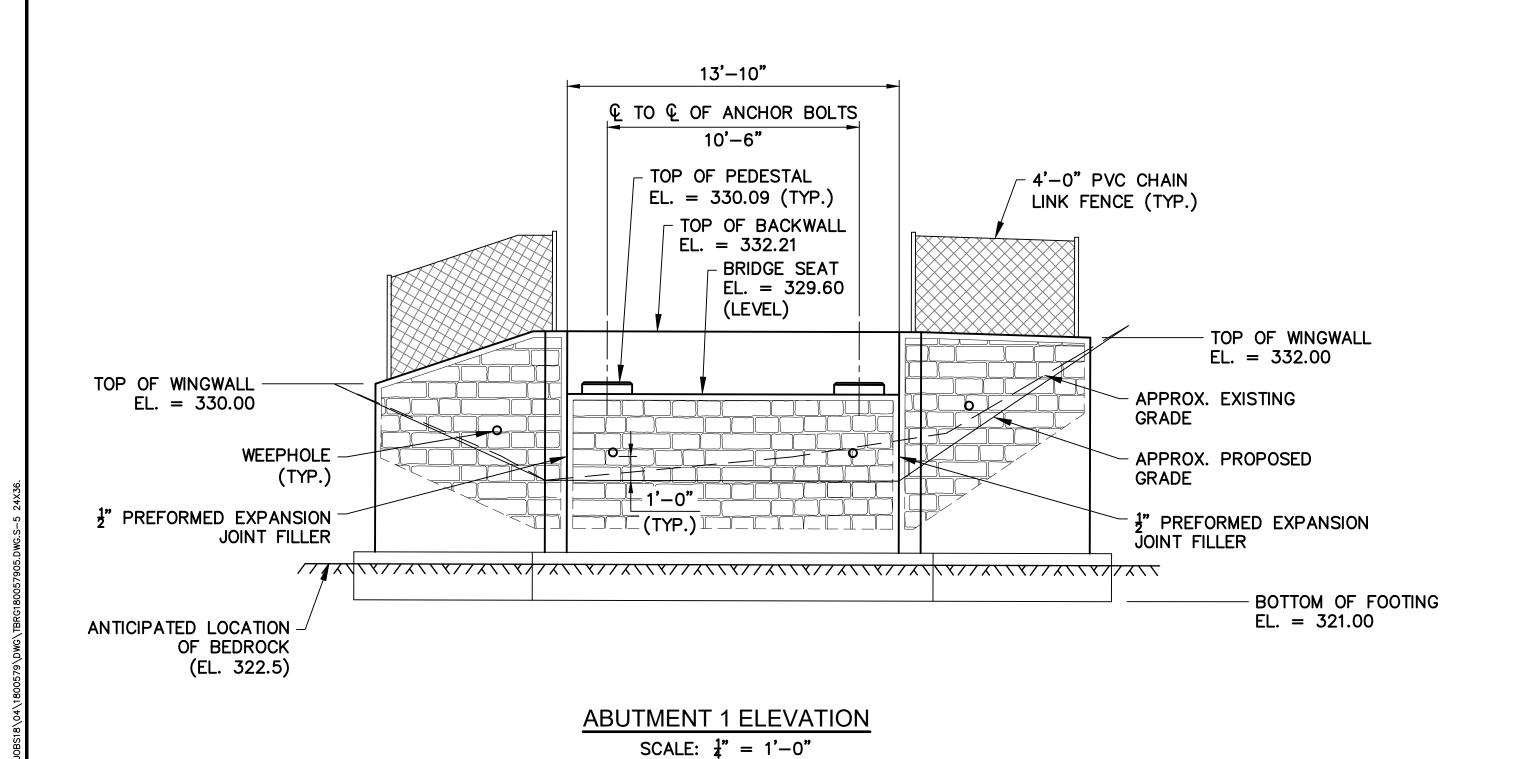
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ABUTMENT 1 PLAN SCALE: $\frac{1}{4}$ = 1'-0"

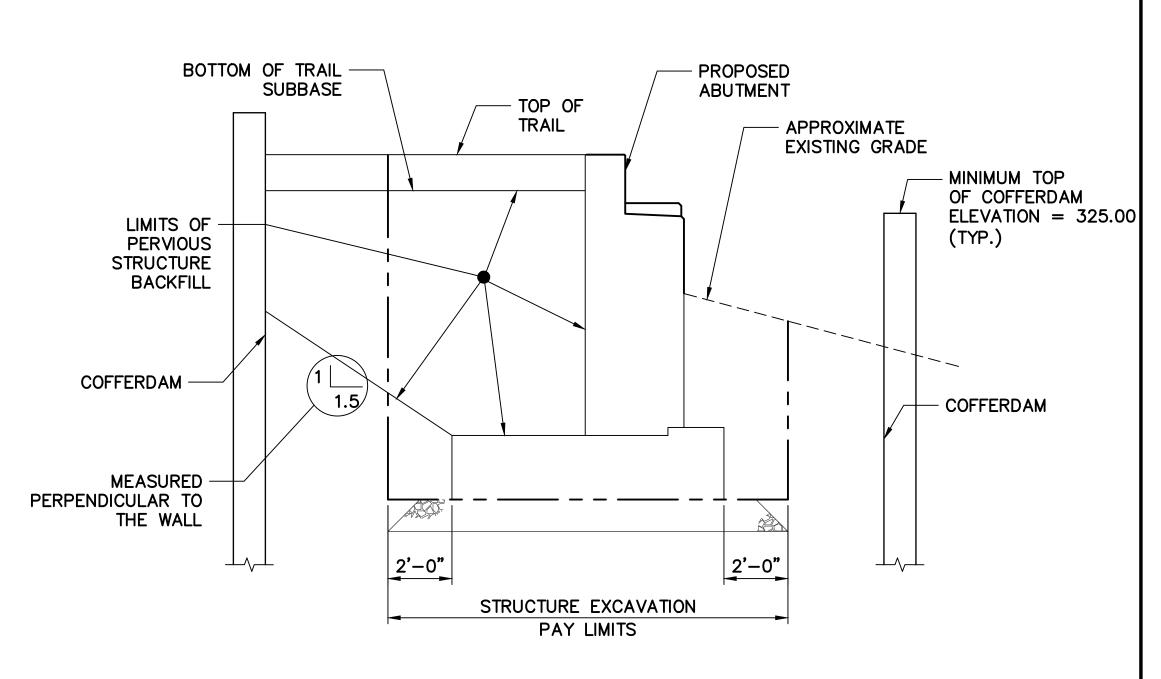




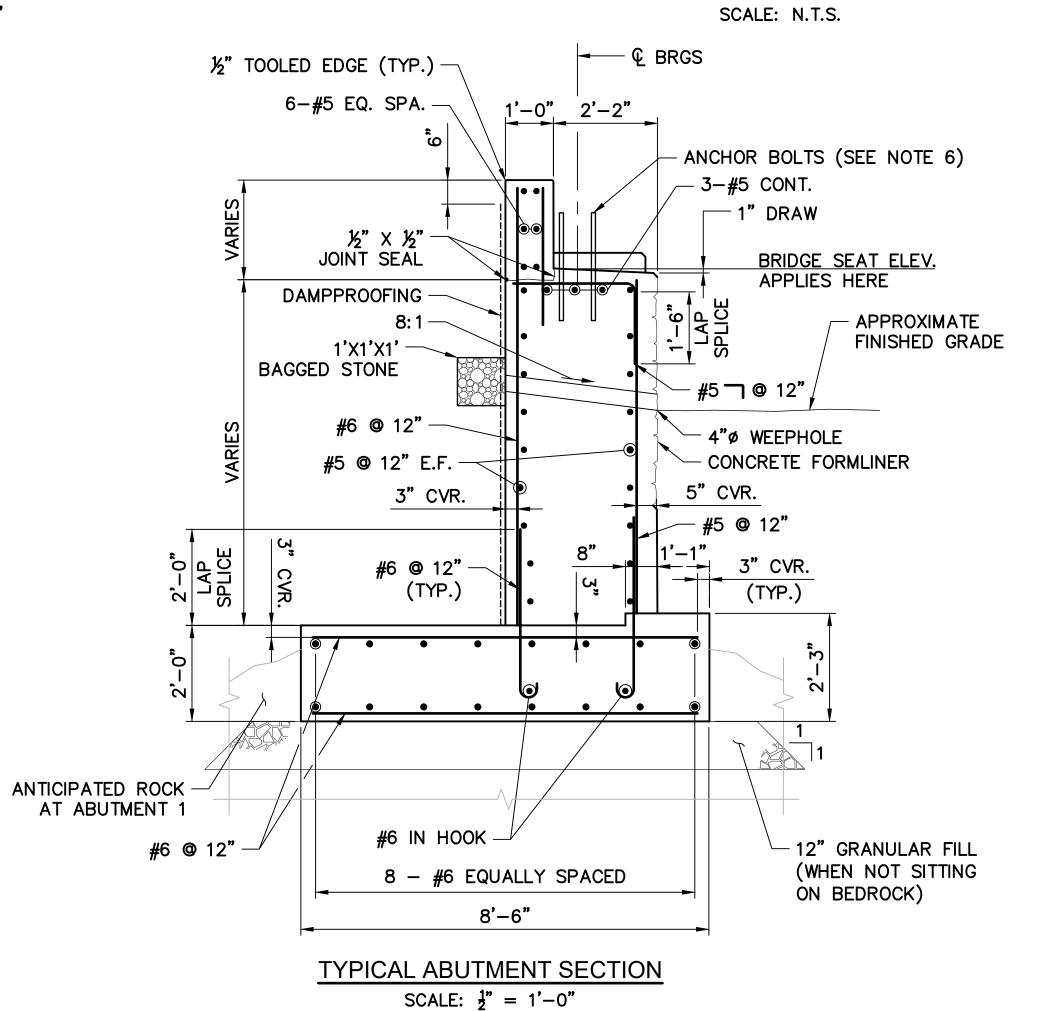
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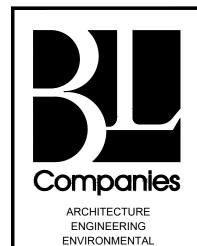
NOTES

- 1. FOR WORKING POINT COORDINATES, SEE SHEET NO. S-2.
- 2. FOR BORING LOGS, SEE SHEET NO. S-3.
- 3. PEDESTAL ELEVATIONS PROVIDED ARE BASED ON ASSUMPTIONS MADE DURING DESIGN. EXACT PEDESTAL ELEVATIONS SHALL BE DETERMINED BY CONTRACTOR AS PART OF THE SUPERSTRUCTURE AND BEARING DESIGN.
- 4. FOR ABUTMENT 2 DETAILS AND TYPICAL WINGWALL SECTION, SEE SHEET NO. S-6.
- 5. EXCAVATION INTO THE BEDROCK FOR CONSTRUCTION THE FOOTING IS TO BE PAID FOR UNDER "STRUCTURE EXCAVATION ROCK".
- 6. THE ANCHOR BOLTS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE EXACT PLACEMENT SHOULD BE COORDINATED WITH THE FABRICATOR AND IS INCLUDED IN THE COST OF "PEDESTRIAN BRIDGE SUPERSTRUCTURE".



TYPICAL ABUTMENT PAYLIMITS





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NAUGATUCK RIVER GREENWAY
PEDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

8005/9_501 VISIONS ate Desc.

Designed
Drawn T.M.B./D.W.H.
Reviewed C.A.P.
Scale AS NOTED

 Scale
 AS NOTED

 Project No.
 1800579

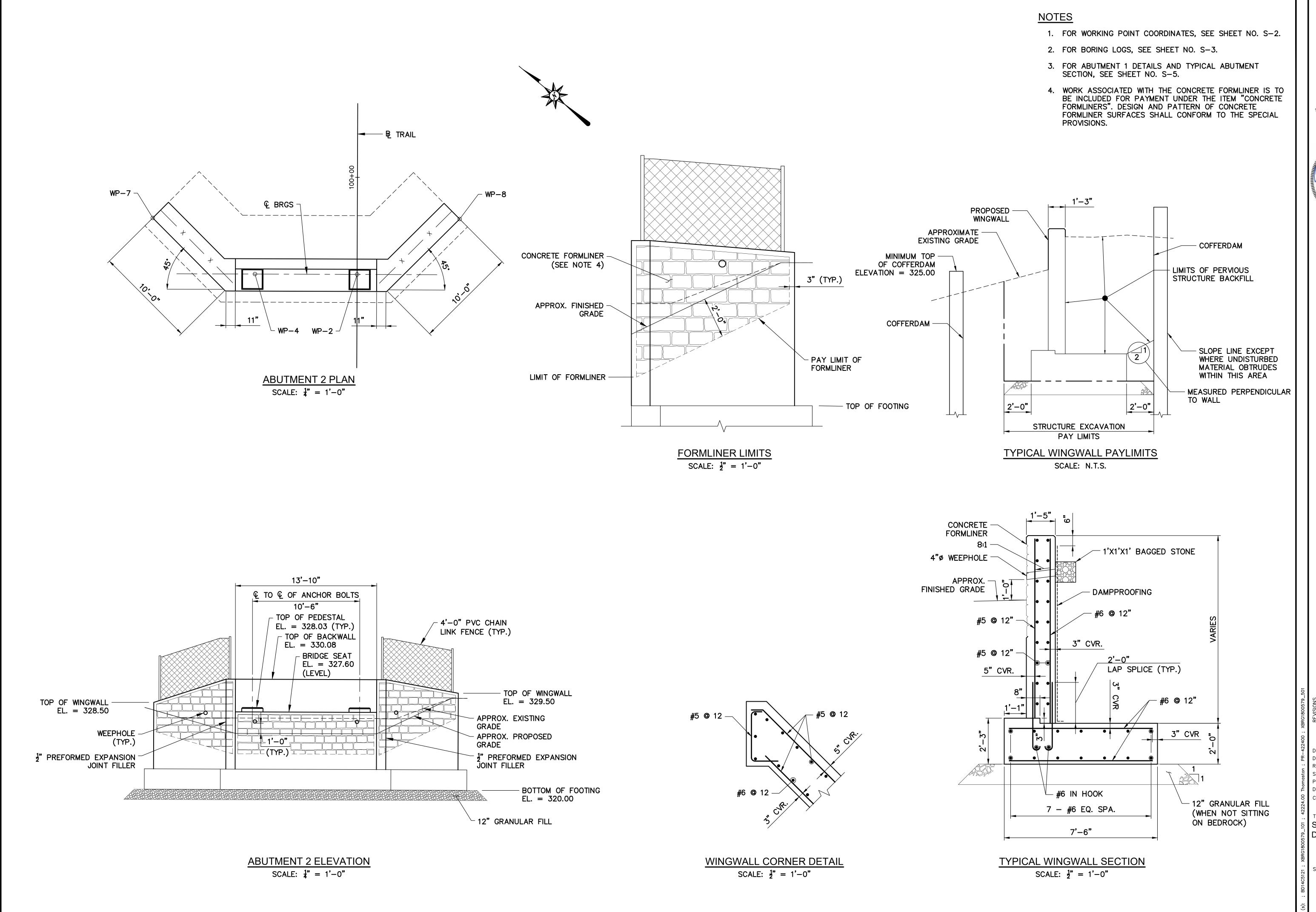
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SUBSTRUCTURE DETAILS - 1

Sheet No.

S-5



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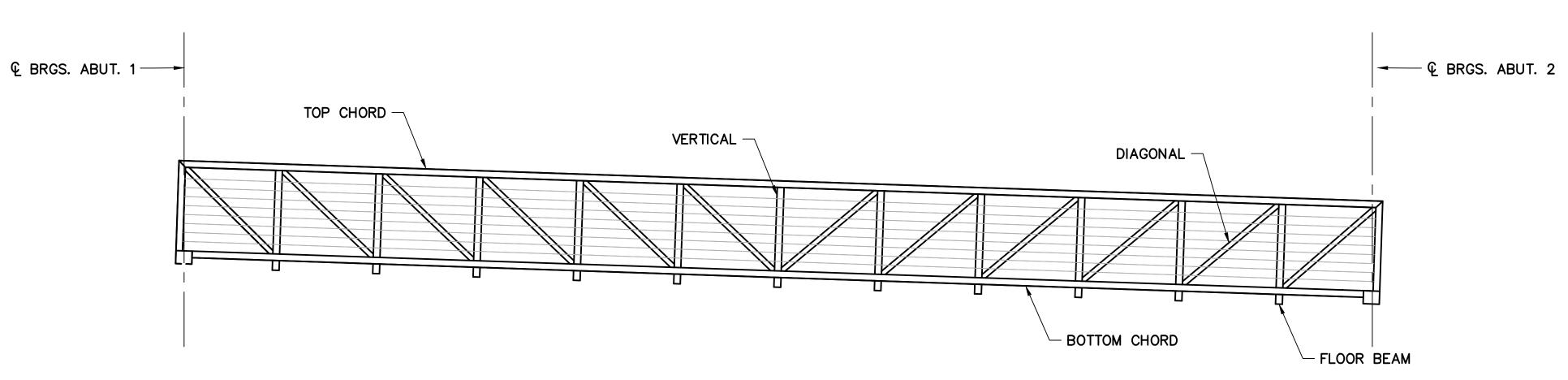
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Project No Date 12/30/2019 CAD File: TBRG180057906

SUBSTRUCTURE DETAILS - 2

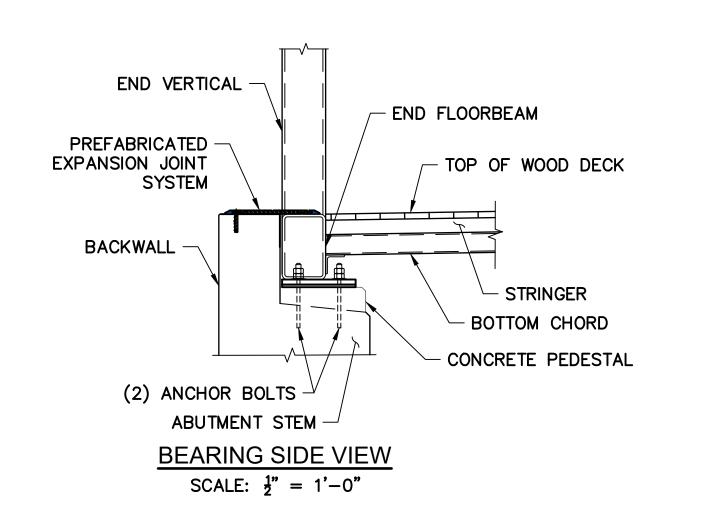
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S-6



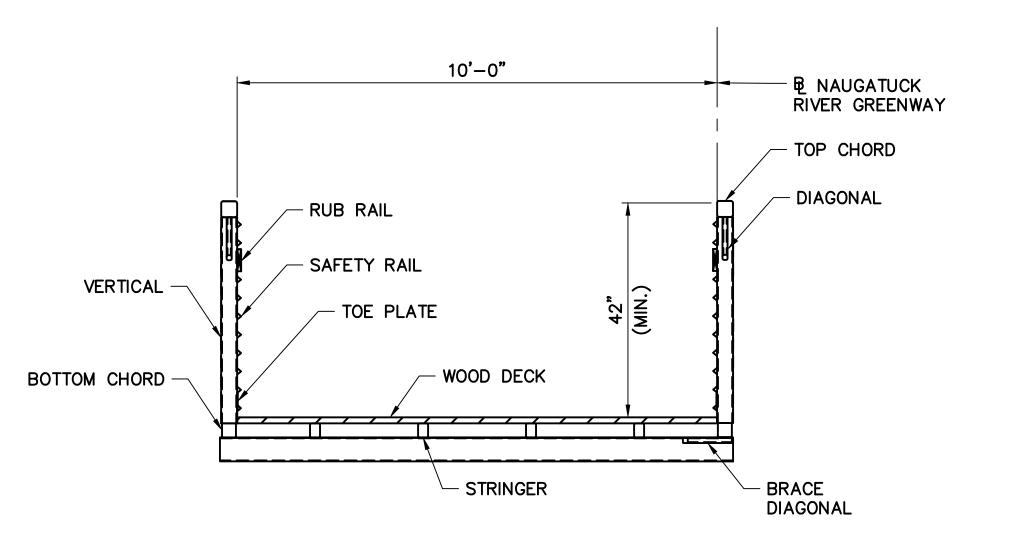
ELEVATION

SCALE: $\frac{1}{4}$ " = 1'-0"



PREFABRICATED PEDESTRIAN BRIDGE NOTES:

- 1. BRIDGE MEMBERS SHALL BE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD—FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL SHAPES (Fy=50,000 PSI).
- 2. TIMBER DECKING SHALL CONSIST OF IPE-TYPE HARDWOOD DECKING.
- 3. PLAIN AND LAMINATED ELASTOMERIC BEARINGS SHALL CONFORM TO AASHTO M251. ELASTOMER SHALL BE GRADE 3 VIRGIN NEOPRENE WITH SHORE 'A' DUROMETER HARDNESS = 66. WHERE STEEL REINFORCEMENT IS REQUIRED, STEEL LAMINAE SHALL CONFORM TO ASTM A560 OR ASTM A611, GRADE C OR D.
- 4. ALL BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A325 (OR ASTM A490), TYPE 3, EXCEPT AS NOTED OTHERWISE. ALL NUTS SHALL MEET THE REQUIREMENTS OF ASTM A635 AND ALL WASHERS SHALL MEET THE REQUIREMENTS OF ASTM F436.
- 5. WELDING DETAILS, PROCEDURES, AND TESTING METHODS SHALL CONFORM TO THE ANSI/AASHTO/AWS D1.5: 2002 BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
- 6. FIELD SPLICES WILL NOT BE ALLOWED EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER PRIOR TO SUBMISSION OF SHOP DRAWINGS. IF ALLOWED, THESE SPLICES SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE COST OF THESE SPLICES, INCLUDING THE COST OF DESIGN, SHALL BE AT NO EXTRA EXPENSE TO THE OWNER.
- 7. PROVIDE NET CAMBER OF $\frac{1}{2}$ " AFTER APPLICATION OF FULL DEAD LOAD.
- 8. LENGTH DIMENSIONS SHOWN ARE HORIZONTAL.
- 9. THE STRUCTURAL STEEL BRIDGE FABRICATOR AND MANUFACTURER SHALL BE CERTIFIED UNDER THE AISC QUALITY CONTROL PROGRAM AS CATEGORY MBrF MAJOR STEEL BRIDGES.
- 10. THE STRUCTURAL STEEL BRIDGE FABRICATOR AND MANUFACTURER SHALL IMPLEMENT A FRACTURE CONTROL PLAN (FCP) AND NONDESTRUCTIVE TESTING (NDT) FOR FRACTURE CRITICAL MEMBERS (FCM) AS OUTLINED IN THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
- 11. THE BRIDGE DETAILS SHOWN ON THIS SHEET AND THE CORRESPONDING ABUTMENT PEDESTAL ELEVATIONS ARE BASED ON THE CONTINENTAL STEEL TRUSS MANUFACTURED BY CONTECH BRIDGE SOLUTIONS OF WEST CHESTER, OH. IF THE CONTRACTOR SELECTS ANOTHER BRIDGE MANUFACTURER, OR IF BRIDGE DIMENSIONS SHOWN ON THIS SHEET DIFFER FROM THAT OF THE ACTUAL DIMENSIONS OF THE MANUFACTURED BRIDGE, AFFECTED DETAILS AND ELEVATIONS SHALL BE ADJUSTED ACCORDINGLY TO ACCOMMODATE THE MANUFACTURED BRIDGE.
- 12. SHOULD THE CONTRACTOR CHOOSE TO SELECT ANOTHER MANUFACTURER, THE CONTRACTOR'S ALTERNATIVE TRUSS BRIDGE SHALL EMULATE THE AESTHETIC FEATURES SHOWN ON THIS SHEET AND SHALL PROVIDE THE REQUIRED SAFETY FEATURES (BRIDGE RAILS) AND MATERIAL REQUIREMENT (WEATHERING STEEL AND TIMBER DECKING) OF THE PROPOSED BRIDGE.
- 13. THE PREFABRICATED EXPANSION JOINT SYSTEM SHOWN ON THIS SHEET IS BASED ON THE WABO SAFETYFLEX JOINT SYSTEM MANUFACTURED BY WATSON BOWMAN ACME OF AMHERST, NY. IF THE CONTRACTOR SELECTS ANOTHER JOINT MANUFACTURER, AFFECTED DETAILS SHALL BE ADJUSTED ACCORDINGLY TO ACCOMMODATE THE MANUFACTURED JOINT.



 $\frac{\text{SECTION}}{\text{SCALE: } \frac{1}{2}" = 1'-0"}$

Companies

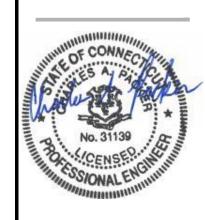
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PEDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

; XBKGI & QUOS / 9_001 REVISIONS No. Date Desc

Designed
Drawn T.M.B./D.W.H.
Reviewed C.A.P.
Scale AS NOTED
Project No. 1800579

Project No. 1800579

Date 12/30/2019

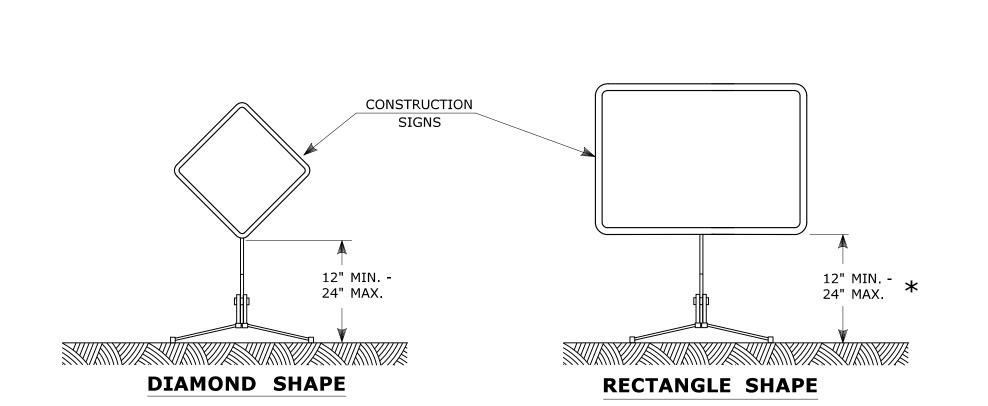
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Title
SUPERSTRUCTURE
DETAILS

Sheet No.

S-7

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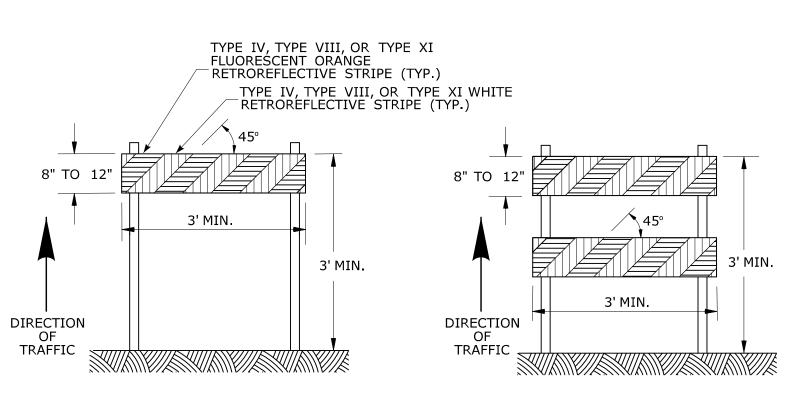


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- 1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24".

 SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER
- 3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- 5. PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220_01 "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.
- * FOR E5-1 (EXIT SIGNS) USE MIN 48".



TYPE I BARRICADE

5' MIN. 4' MIN. 4' MIN.

TYPE III BARRICADE

CONSTRUCTION BARRICADES

TYPE II BARRICADE

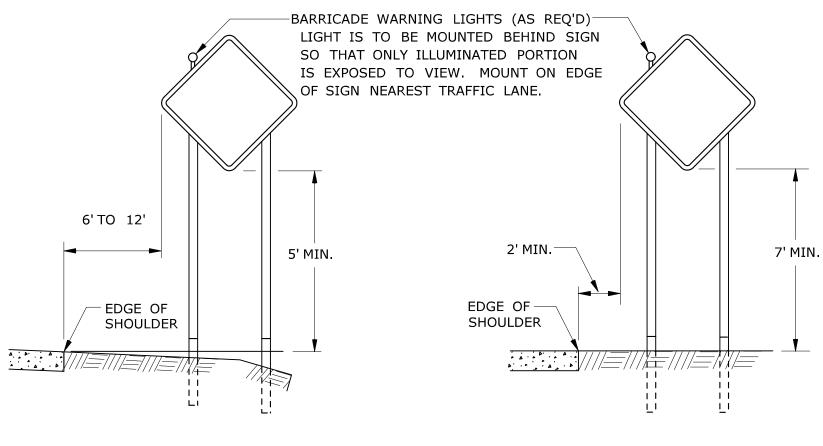
NOTES:

- 1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- 2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- 3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- 6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.

42" TRAFFIC CONE

NOTES:

- 1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- 3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



RURAL AREA

URBAN AREA

PLACEMENT OF CONSTRUCTION SIGNS TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.
REFER TO STANDARD SHEETS:

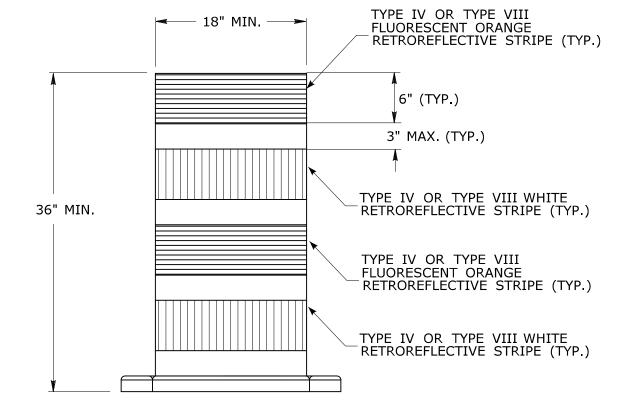
TR-1208_01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."
TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."

TYPE VI WHITE RETROREFLECTIVE STRIPE TYPE VI WHITE RETROREFLECTIVE STRIPE 6" 2" 4" 28" MIN.

TRAFFIC CONE

NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- 3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 6. TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- 7. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC DRUM FRONT VIEW

NOTES:

- 1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

3 2	8-2018 8-2015	UPDATED SHEETING TYPE AND COLOR. UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	
1	2-2011	MINOR REVISIONS.	1	
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/10/2018	

NOT TO SCALE

Filename: TR-1220_02_3_2018.dgn

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Model: TR-1220_02

DIRECTION

TRAFFIC

May Mabul 20
APPROVED BY:

Mark F. Makuch, P.E.
2018.08.17
09:12:43-04'00'
NAME/DATE/TIME:

Mark F. Carlino, P.E.
2018.08.21 07:49:51-04'00'

NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

TR-1220_02

FANDARD SHEET NO.: